

Product Catalogue



Enterprise Cabling

May 2006



Convincing cabling solutions

Competent, innovative, customer-oriented

Reichle & De-Massari AG is an independent family enterprise with 42 years of experience in the information and communication technology market (ICT). We successfully concentrate on passive cabling solutions for communication networks (layer 1). Thanks to our copper and fiber optic products of outstanding quality and our commitment to customers and their requirements we have acquired an enviable reputation. Today, R&M sets standards in modularity, quality and ease of installation and maintenance. We have worked our way to the market-leading position in Switzerland and are growing internationally. The company now has subsidiaries in 8-countries and a global network of qualified distributing partners.

We are committed to innovative solutions and invest nearly 10% of our turnover in research and development every year. With great success! Today, 35% of our turnover is achieved with products less than 3 years old. A-remarkable feature of R&M is a profound experience and competence in connecting and distributive technology for copper and fiber optic networks. We supply convincing cabling solutions to the segments of enterprise and carrier cabling on the basis of these technologies, while active in the growing markets of residential and industrial cabling, too.

There's a general 5 year warranty for all products published in this catalog (except all active components).

Those products additionally covered by the 20 year system warranty and lifetime application warranty are highlighted in blue (see chapter index).

Version 5
May 2006



ISO 9001 quality standard

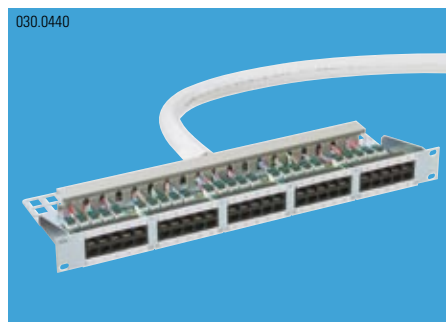
Utmost care went into creating this document. The information it contains reflects the product's engineering level at the time of publication. Amendments or corrections to this document will be included in each new edition. Subject to technical change without notice. rm

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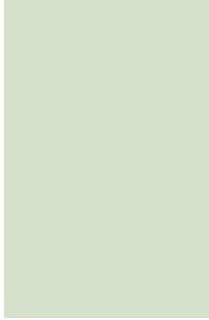
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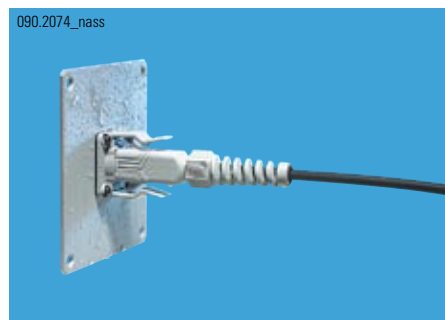
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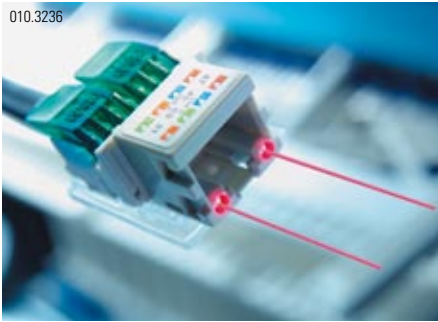


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A decision with a future

PACEMAKER OF THE COMMUNICATIONS TRADE

A perfect communications system must be modular and flexible in design in order to meet future requirements. Just as important are network availability, investment protection and ease of installation and-maintenance. The R&M cabling system ensures that the vision of-unlimited communication becomes reality for everyone.



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Enterprise Cabling



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Carrier Cabling



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Residential Cabling



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Industrial Cabling

SAFEST JUNCTIONS FOR COMMUNICATIONS NETWORKS

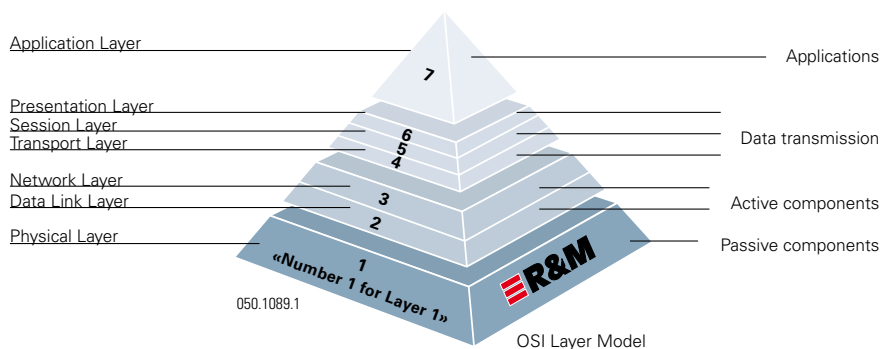
70% of all road accidents happen at junctions or are due to poor roads. In the field of telecommunications R&M builds the safest junctions, reliably preventing accidents and bottleneck situations that increasing traffic density and growing speed can cause. In generic communications cabling voice and data have already merged together – the next developments will concern video, security and automation.

Due to the ever-increasing amount of data, the risk of – extremely costly – network failures is also increasing. As much as two thirds of network failures today trace back to bad cabling solutions. The end users' demand for higher quality standards is very understandable. The uncompromising R&M quality philosophy is clearly hitting the nail on the head!

FLEXIBLE FAMILY ENTERPRISE

Very conducive to these ambitions is the unlimited flexibility of our medium-sized family enterprise, especially combined with the potential of a successful global player. A good two thirds of our net sales are generated by export sales, compared to "only" 45% in 1995. Our philosophy, "We don't do anything that others can do better." best summarises our uncompromising commitment to quality and stringent R&M quality standards – and explains why we play in the Champions League and are positioned at the very top of the world in our core business.

Customer focus is not just a buzzword for us, but an established fact – all around the globe. That is why we have 8 subsidiaries, 6 representative offices, and more than 60 distributors and partners worldwide.



FIRMLY ROOTED LEADING POSITION

Our leading position is firmly rooted in nearly 40 years of experience, customer-oriented solutions in close cooperation with strategic partners, and last but not least in our substantial know-how in the field of connecting hardware of electrical and optical conductors. That is why our solutions set standards for modularity and quality, as well as ease of installation and maintenance.

THE FOUR BUSINESS FIELDS

In the field of *enterprise cabling* (structured cabling systems) our R&Mfree-net cabling system embraces all the cabling in buildings and offices for data and voice transmission, control systems and data/power integration. It is the biggest business field, and R&M is continuously expanding its established technological leadership, reinforcing the resulting competitive advantage in the area of shielded and unshielded C5e and C6 RJ45 generic cabling and components.

In the field of *carrier cabling* (telecom carriers) R&M supplies cabling for the access sector as well as MAN and WAN applications. R&M's fiber optic connectors have been set up with higher transmission data – guaranteeing top-grade, modular overall solutions for inside and outside plant applications covering all requirements.

The field of *industrial cabling* embraces installations of systems in industrial surroundings. In line with the slogan "Ethernet goes industry" R&M launched the latest RJ45 solutions, which are suited to the harshest environments (dust, humidity). Plus, R&M offers the only system where jack and RJ45 plug can later be easily upgraded to an IP 54 protection index.

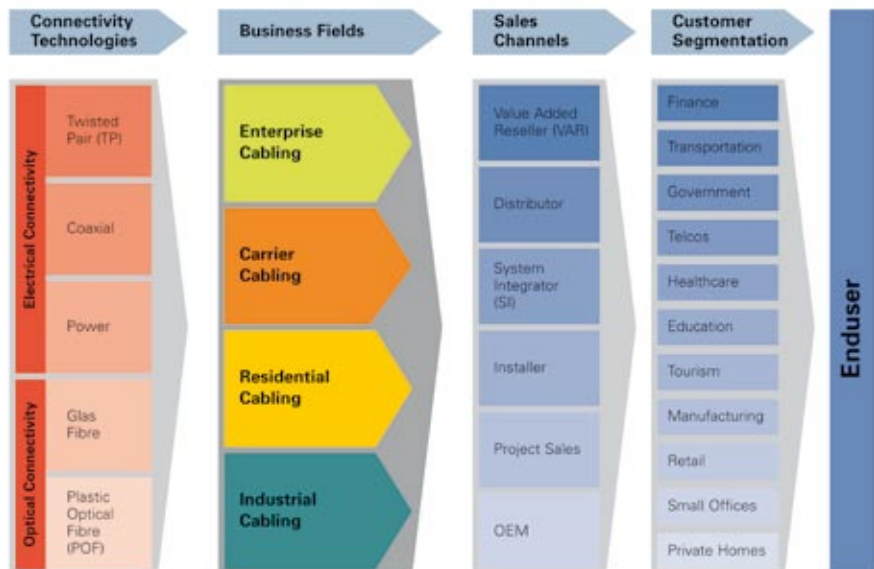
Residential cabling provides cabling systems for private premises prepared

for the whole new multimedia age. This field holds enormous potential for development with new applications such as faster Internet surfing, video on demand or VPN home access to the company's Ethernet.

R&M was the first enterprise to launch a modular outlet for residential applications. Depending on what the user needs, this most compact TV/radio jack (coax) accommodates phone or data connections (RJ45) to snap on.

R&M Business Model

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R&Mfreenet – three product

YOU CAN CHOOSE FROM CLASSIC TO VISIONARY

The R&Mfreenet system opens up endless possibilities with the three product lines of CLASSIC, STAR and VISION. Individual needs are met in a customer-specific manner. Depending on the desired cabling performance, and taking into account environmental conditions and security needs, the ideal and expandable solution can be configured from a proven product line.

CLASSIC – ADVANTAGEOUS PRICE-PERFORMANCE RATIO

This product line includes shielded and unshielded Cat. 5e/Class D/E components. CLASSIC offers the following special features: advantageous price-performance ratio, high mechanical stability of the components and easy installation. The CLASSIC range is appropriate for small to medium sized

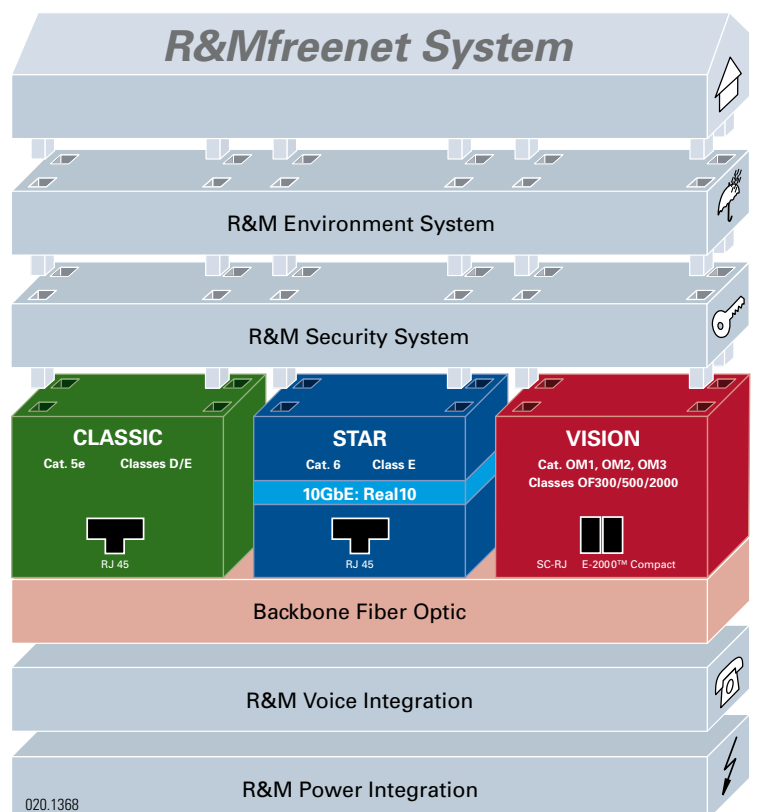
enterprises, for file and application sharing or daily Internet access.

STAR – THE STARS OF COPPER CABLING

In addition to the large bandwidth and Cat. 6/Class E performance, the STAR components provide the security that future applications will be efficiently supported.

KEY

- CLASSIC
- STAR
- VISION



line s for any need

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At the same time, the components are backwards compatible to Cat. 5 and Cat. 5e. Further advantages are the easy, tool-free wiring as well as the high mechanical and electrical long-term stability.

REAL10 – 10 GBIT PERFORMANCE

The performance lead is held by the copper cabling of the STAR Real10 products. Thanks to the latest transmission technology, it supports real 10 Gigabit Ethernet under real conditions and conforms to the current status of standards. The STAR product line targets customers who attach great value to their future-proof and flexible IT infrastructure. STAR products are in particular the right choice for time-sensitive applications, such as voice over IP and video communication where one hundred percent network availability matters.

VISION – GREATER VALUE, GREATER SECURITY

Discover the added value of fiber optic. The VISION products are based on fiber optic technology and offer a multitude of advantages: large bandwidth, low space requirement and immunity to electromagnetic interferences. VISION is intended for backbone applications in medium and large sized enterprise networks. With VISION, complex building topologies

with large distances can flexibly be made accessible to the point of the workplace (Fiber to the Desk).

Among the typical VISION customers are enterprises with large locations,

service providers, telecommunication companies and network operators who believe in future multimedia and technologies as well as in maximum operational reliability and flexibility.

	Positioning		
	CLASSIC	STAR	VISION
Cabling structure	GSC Expanded GSC	GSC Expanded GSC	Collapsed Backbone Extended Backbone
Medium	Horizontal: Copper Backbone: Optical fiber/copper	Horizontal: Copper Backbone: Optical fiber/copper	Data: Optical fiber Voice: Cat. 5e copper
Transmission class	D/E (2 connectors)	E / F (2 pairs)	OM1, OM2, OM3, OS1
Connection modules	Cat. 5e (RJ45) ¹⁾	Cat. 6 (RJ45) ¹⁾	Data: Optical
Patch cords	Cat. 5e (RJ45) ¹⁾ /Cat. 6	Cat. 6/7 (RJ45) ¹⁾	Data: Optical Voice: Cat. 5e
Installation cables	Cat. 5e ¹⁾ /Cat. 6	Cat. 6/7 ¹⁾	Data: Optical
Gigabit Ethernet	Yes	Yes	Yes
10 Gigabit Ethernet	–	Yes ²⁾	Yes
Components tested and certified by an independent testing laboratory	Yes	Yes	Yes
Channel/link tested and certified by an independent testing laboratory	Yes	Yes	–
Warranty	20 years	20 years	20 years
Feature	Optimal cost benefit ratio	Future-proof due to increased bandwidth	Cost advantages through central administration

¹⁾in shielded or unshielded form

²⁾according to IEEE802.3an draft of standards

TAILOR-MADE SOLUTIONS AT ATTRACTIVE PRICES

R&M combines decades of experience and innovative dynamics. Our overall solutions are based on a demand-driven synthesis of products, systems and services. We develop and realise individual solutions for carriers.

CARRIER CABLING

R&M combines decades of experience and innovative dynamics. Our overall solutions are based on a demand-driven synthesis of products, systems and services. We develop and realise individual solutions for carriers.

Among our customers are international and national telecom companies, numerous regional network operators and city carriers. We maintain close contact with these companies who appreciate our flexibility. Not being restricted by any complex corporation structures and being an independent enterprise allows us to act fast and meet customers' demands efficiently and individually. In this way specific solutions are created, results of our experience of many years. Get your added value, too.

Network security is particularly important for carriers. R&M systems increase network security through convenient installation and easy maintenance, both factors supporting interruption-free network operation. Your investment is protected. And thanks to the modular design you are ready for gradual network development or expansion, and your infrastructure is ready for all future requirements!

FIBER OPTIC SYSTEMS

R&M has acquired comprehensive core competences in fiber optic technology. Today, we supply distributor and connector technology for future-proof transmission channels to the whole world.

COPPER DISTRIBUTION SYSTEMS

Be it conventional telephony or high-speed data transmission via ISDN and xDSL – R&M provides the exact distribution components you need. Take advantage of our vast experience in IDC technology (Insulation Displacement Contact); you will benefit from one of the most substantial and extensive product ranges on the market.

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1. FLEXIBILITY IS EVERYTHING

The 1-pair dropwire module: individual customer-tailored development in record time.

3. SPACE SAVING CHAMPION

VS Compact: one of the world's most compact copper connecting hardware systems.

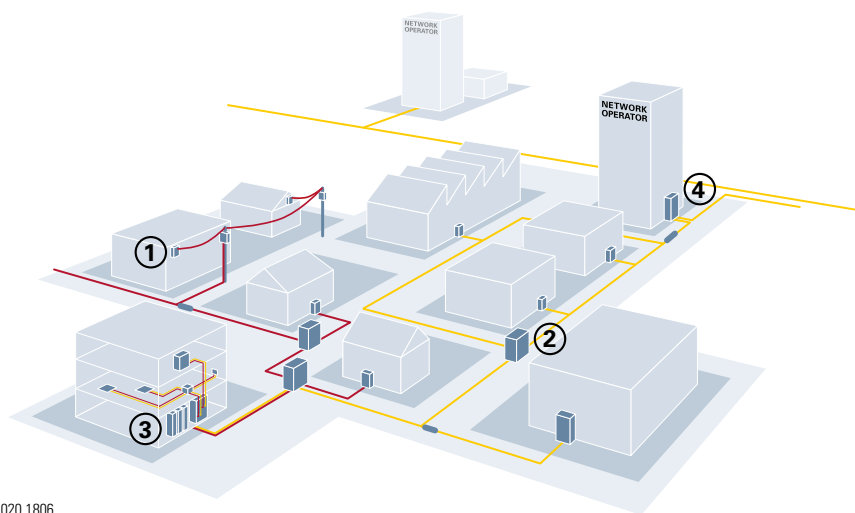


2. SECURITY RIGHT DOWN TO THE LAST DETAIL

FiberCurb II: ideal cable guiding for highest operational reliability.

4. INVESTMENT PROTECTION

FOM System: the intelligent fiber optic cable management lowers network failure risk.



Residential cabling – the right

PACESETTER

We help to make a dream of mankind come true, the dream of unrestricted communications and exchange of information. We exercise the function as pacesetters, developing and manufacturing passive cabling solutions for communications networks.



DIGITAL LIFESTYLE – MORE THAN JUST COMPUTERS AND MEDIA

The use of different media in private premises is constantly increasing. As many as 40 to 60% of households in Western Europe – with regional deviations – use a computer, and the percentage of those with a broadband Internet access among all networked households will reach the 30% mark in 2008.

The networking of private premises goes beyond telecommunications, Internet, broadcasting and entertainment. Soon fridges, cooking stoves, alarm systems and electronic building equipment will be online too. The washing machine with Internet access and the interactive television already exist.

This technological development is the manifestation of a life attitude, the digital lifestyle. This means individuality, convenience, and multi-optionality. Conclusively, this is what private customers and users want:

- more performance and bandwidth
- discrete use of all media
- free choice of access systems
- permanent availability of all services
- networking of a variety of equipment
- flexible locations and applications
- convenience, security, ease of use
- elegance and design, and no cable spaghetti



010.2956

CABLING AT HOME FACES INCREASING DEMANDS

Regular cabling solutions cannot cater to the needs of this market anymore. Installations today must take a broader approach, and consider all media and communications requirements. They must enable the fast and easy networking of entire living areas. The vision is a multimedia landscape to live in, be entertained in and experience. And residential cabling is the ticket. A neat structure, high ease of installation, plus the protection of investments are some of the strong points of our solution.

A MARKET WITH POTENTIAL

R&M has recognised the demand springing from the trend towards the networking of private homes. Residential cabling is a market with an enormous potential for development, and is defined as a strategic business field. You, as an R&M partner, will also benefit from this potential and the tapping of this market.



Industrial Cabling – Ethernet

PARTNERS IN INDUSTRIAL PROJECTS

The increased use of high bit-rate transmission protocols magnifies the demands set on the cabling system. This trend is heading towards a transparent, continuous network. In addition to transmission requirements the industrial sector holds many more demands, such as installation friendliness, outdoor applications, and protection against environmental influences.

ETHERNET GOES INDUSTRY

Networking is steadily pressing on in the industrial sector. In outdoor applications today, LAN interfaces need to be available even in aggressive, dusty, or oil-containing environments. The objective in industrial cabling is a transparent, generic network providing redundant availability.

HIGHER DEMANDS

Cabling systems in industrial surroundings are based on well-proven layer-1 technologies from the LAN world that have to meet higher and different demands. Next to the demand for ever-increasing bandwidth, it is protection against corrosion, dust, humidity, and EMC, modularity, installation friendliness, and absolute top safety that have priority in industrial cabling.

R&M supports planners, installers, and customers to fulfil these high demands, starting from the conception and product selection, up to lifetime service and support by supplying professional and competent solutions.

OUR RANGE OF SERVICES

R&M develops and supplies cabling solutions in accordance with IEC 50173 for industrial operational areas. Responding to the different needs there are the transmission technologies Cat.-5, Cat.-6, or fiber optics as well as flexible, modular installation concepts to choose from. Characteristic for R&M are unequalled products and extensive expertise.

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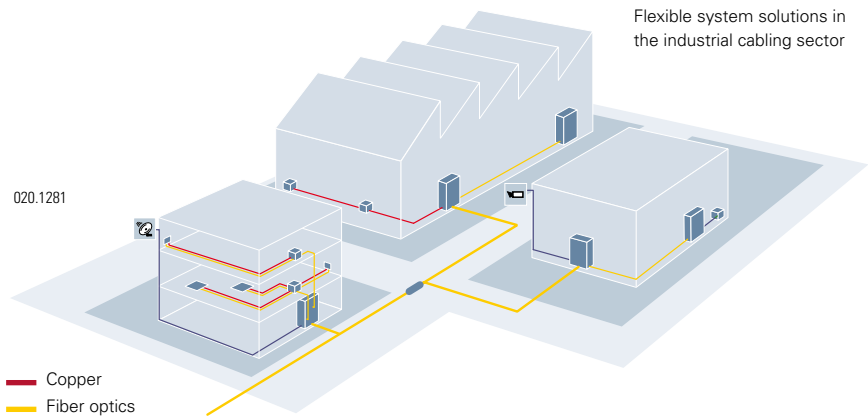


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YOUR BENEFITS

As a Swiss manufacturer and international leader in quality, R&M combines uncompromising product excellence with

- consultancy and support;
- perfectly tuned solutions;
- logistic services;
- customer focus.



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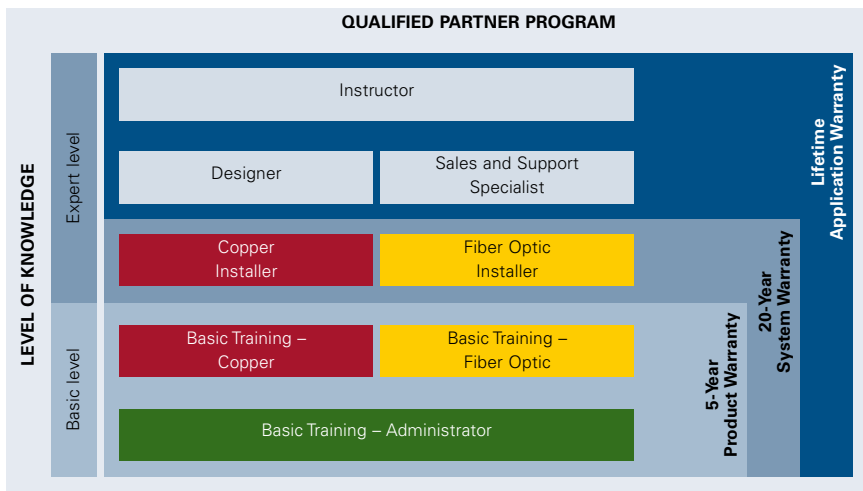


R&Mfreenet Training Program

ONE-OF-A-KIND: R&MFREENET WARRANTY PROGRAM

The R&M warranty program from Reichle & De-Massari provides its end users with comprehensive warranties through certified R&Mfreenet partners.

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cabling consists exclusively of passive R&Mfreenet components and if a certified R&Mfreenet installer (or one through the QPP higher trained entity) carried out the entire installation.

LIFETIME APPLICATION WARRANTY

The condition for this warranty performance is that a certified designer has planned the passive R&Mfreenet cabling system. The warranty promises that during the lifetime of the system, all protocols supported by industry standards will be functioning.

R&MTHREE-STEP SYSTEM WARRANTY

End users must be assured that their network will still fulfill its purpose in the future. The selection of a cabling system represents a long-term investment. The individual components must be compatible with future technologies, standards and performance requirements. The network must function error-free for years. R&M ensures this for the future. In the capacity of a certified R&M partner you can pass on the warranty in three steps – as a real added value.

5-YEAR PRODUCT WARRANTY

This warranty guarantees that passive R&Mfreenet components are defect-free during this period of time and that they exceed any relevant cabling standard. Anyone acquiring passive R&Mfreenet components enjoys this protection.

20-YEAR SYSTEM WARRANTY

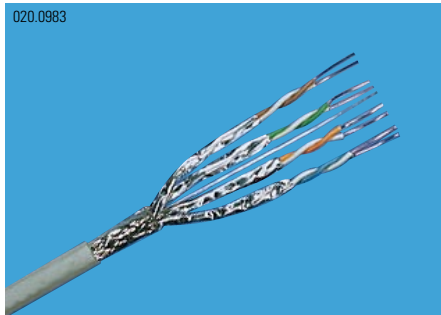
This warranty covers the entire R&Mfreenet cabling system and protects the end user against component failure and installation problems. The warranty is accorded if the LAN

Regardless of what requirements end users demand – you can trust the R&Mfreenet certified partners. More information on certified partners, training, warranty performances and service programs is available on the Internet at: www.rdm.com



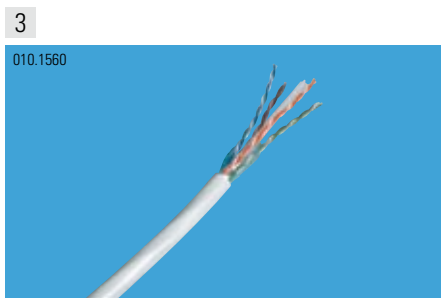
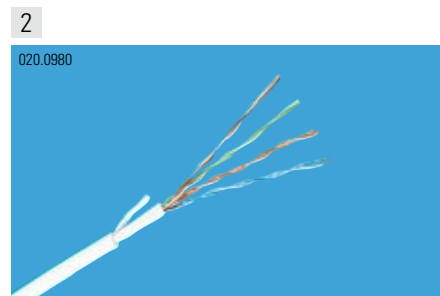
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Copper Installation Cables



R&M guarantee on the system

- All products tested by independent labs
- Best performance characteristics
- Available in various designs



Products

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020.0978



Features

- Suitable for voice, video and data transmission
- Outer sheath LSZH, flame-retardant and zero halogen, compliant with IEC 60332-1 / IEC 60754-2 / IEC 61034
- For data transmission frequencies between 16 MHz and 100 MHz

Ordering Information

Description

PU

Part Number

020.0978



Multipair Installation Cable, Cat. 3, U/UTP,

Supplied:

- Multipair, Cat 3, U/UTP cable
- 100 Ω impedance
- Data transmission frequency of up to 16 MHz

25P, LSZH, 300 m
50P, LSZH, 300 m
100P, LSZH, 300 m

1
 1
 1

R311322
 R311319
 R311320

020.0978



Multipair Installation Cable, Cat. 3, F/UTP,

Supplied:

- Multipair, Cat. 3, F/UTP cable
- 100 Ω impedance
- Data transmission frequencies of up to 16 MHz

25P, LSZH, 300 m
50P, LSZH, 300 m
100P, LSZH, 300 m

1
 1
 1

R311321
 R311323
 R311324

020.0978



Multipair Installation Cable, Cat. 5, U/UTP,

Recommended applications:

- IEEE 802.3: 10 Base-T, 100 Base-T, ISDN, xDSL
- IEEE 802.5 16 MB: ISDN, TPDDI, ATM 155 Mbit/s

Standards:

- EN50173, ISO/IEC 11801

Supplied:

- Multipair, Cat. 5, U/UTP cable
- 100 Ω impedance
- Data transmission frequencies of up to 100 MHz

25P, LSZH, 300 m
50P, LSZH, 300 m
100P, LSZH, 300 m

300
 300
 300

R310908
 R310916
 R310917

Copper Installation Cables
CU Multipair Installation Cables, Cat. 3/5



Multipair Installation Cable, Cat. 5, F/UTP,

- Recommended applications:
- IEEE 802.3: 10 Base-T, 100 Base-T, ISDN, xDSL
 - IEEE 802.5 16 MB: ISDN, TPDDI, ATM 155 Mbit/s
- Standards:
- EN50173, ISO/IEC 11801
- Supplied:
- Multipair, Cat. 5, F/UTP cable
 - 100 Ω impedance
 - Data transmission frequencies of up to 100 MHz

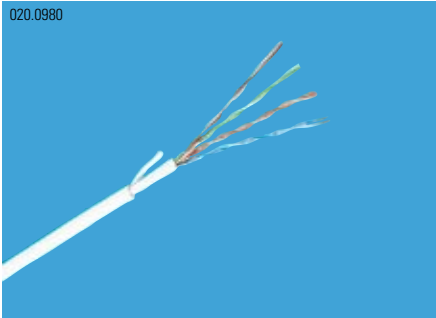
25P, LSZH, 300 m	300	R310918
50P, LSZH, 300 m	300	R310920
100P, LSZH, 300 m	300	R310921

Old designations

UTP
 FTP
 S-FTP
 S-STP

New designations

U/UTP
 F/UTP
 SF/UTP
 S/FTP

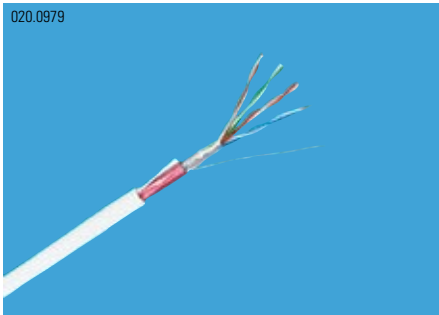


Features

- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- For frequencies of up to 200 MHz

Ordering Information	Description	PU	Part Number	
	Installation Cable, Cat. 5e, U/UTP, Supplied: – Cat. 5e, U/UTP cable – 100 Ω impedance – Data transmission frequencies of up to 200 MHz			
	4P, PVC, 500 m	500	R35044	●
	4P, LSZH, 500 m	500	R35045	●
	4P, PVC, 305 m	305	R35291	●
	4P, LSZH, 305 m	305	R35292	●
	Siamese Cable, Cat. 5e, U/UTP, Supplied: – Cat. 5e, U/UTP cable – 100 Ω impedance – Data transmission frequencies of up to 200 MHz			
	2x4P, PVC, 500 m	500	R35046	●
	2x4P, LSZH, 500 m	500	R35047	●
	Installation Cable, Cat. 5e, F/UTP, Supplied: – Cat. 5e, F/UTP cable – Aluminum foil shielding – Tin-plated copper drain wire – 100 Ω impedance – Data transmission frequencies of up to 200 MHz			
	4P, PVC, 500 m	500	R35048	●
	4P, LSZH, 500 m	500	R35049	●
	4P, LSFRZH, 500 m	500	R302039	●

Copper Installation Cables
Cu Installation Cables, Cat. 5e

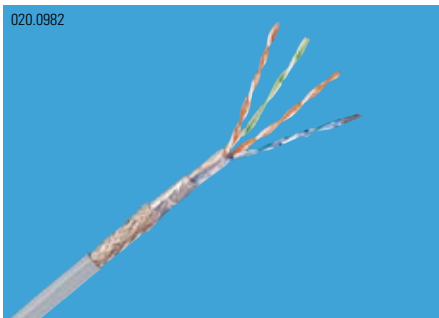


Siamese Cable, Cat. 5e, F/UTP,

- Supplied:
- Cat. 5e, F/UTP cable
 - Aluminum foil shielding
 - Tin-plated copper drain wire
 - 100 Ω impedance
 - Data transmission frequencies of up to 200 MHz

2x4P, PVC, 500 m
2x4P, LSZH, 500 m

500 R35050
 500 R35051

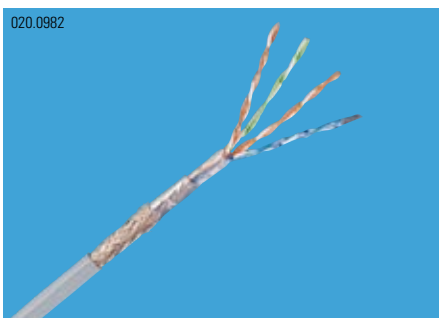


Installation Cable, Cat. 5e, SF/UTP,

- Supplied:
- Cat. 5e, SF/UTP cable
 - Aluminum foil and tin-coated copper braid shielding
 - 100 Ω impedance
 - Data transmission frequencies of up to 200 MHz

4P, PVC, 500 m
4P, LSZH, 500 m
4P, LSFRZH, 500 m

500 R35052
 500 R302089
 500 R35053



Siamese Cable, Cat. 5e, SF/UTP,

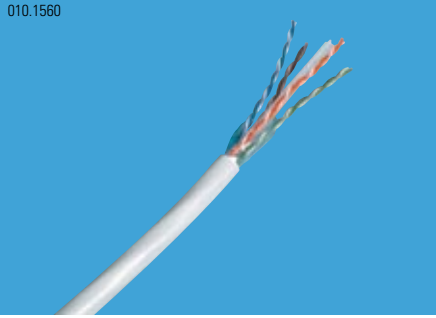
- Supplied:
- Cat. 5e, SF/UTP cable
 - Aluminum foil and tin-plated copper braid shielding
 - 100 Ω impedance
 - Data transmission frequencies of up to 200 MHz

2x4P, PVC, 500 m
2x4P, LSZH, 500 m
2x4P, LSFRZH, 500 m

500 R35054
 500 R303286
 500 R35055



010.1560



Features

- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- For frequencies of up to 450 MHz

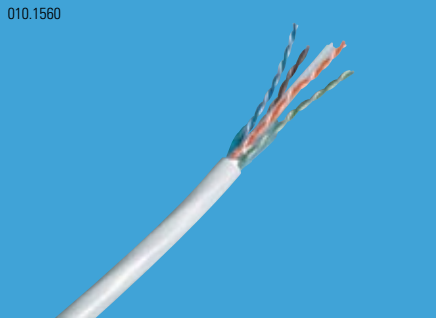
Ordering Information

Description

PU

Part Number

010.1560



Installation Cable, Cat. 6, U/UTP,

Supplied:

- Cat. 6, U/UTP cable
- 100 Ω impedance
- Data transmission frequencies of up to 450 MHz

4P, PVC, 500 m

4P, LSZH, 500 m

500

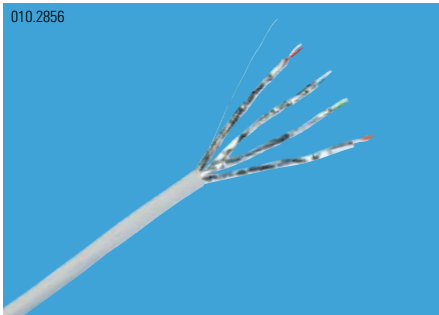
R35056

500

R35057



Copper Installation Cables
Cu Installation Cables, Real10 Cat. 6



Features

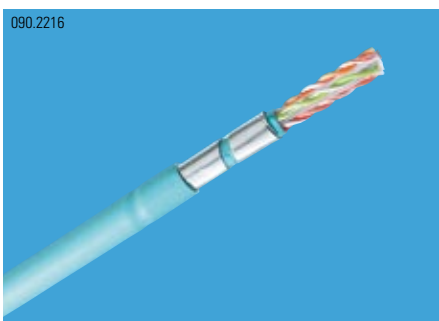
- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- Complies with the 10GBase-T requirements of IEEE802.3an
- Real10 Cat. 6 is suitable for transmission frequencies of up to 650 MHz

Ordering Information

Description

PU

Part Number



Installation Cable, Real10 Cat. 6, U/UTP,

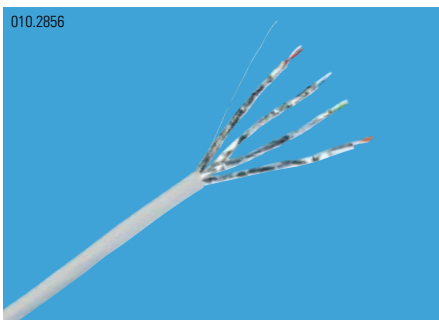
Supplied:

- Real10 Cat. 6, U/UTP cable
- 100 Ω impedance
- Data transmission frequencies of up to 650 MHz

4P, LSZH, 500 m

500

R312808



Installation Cable, Real10 Cat. 6, U/FTP,

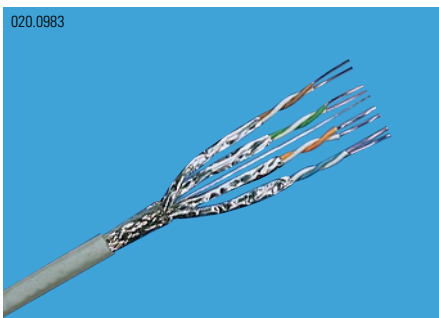
Supplied:

- Real10 Cat. 6, U/FTP cable
- Foil-shielded pairs
- 100 Ω impedance
- Data transmission frequencies of up to 650 MHz

4P, LSZH, 500 m

500

R308247



Installation Cable, Real10 Cat. 6, S/FTP,

Supplied:

- Real10 Cat. 6, S/FTP cable
- Foil and tin-plated copper braid shielding of pairs
- 100 Ω impedance
- Data transmission frequencies of up to 650 MHz

4P, LSZH, 500 m

500

R305649





Features

- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- For frequencies from 750 MHz up to 1200 MHz

Ordering Information	Description	PU	Part Number	
	<p>Installation Cable, Real10 Cat. 7, S/FTP, Supplied:</p> <ul style="list-style-type: none"> – Real10 Cat. 7 light, S/FTP cable – Foil and tin-plated copper braid shielding – 100 Ω impedance – Data transmission frequency of up to 750 MHz 	500	R35257	●
	<p>Installation Cable, Real10 Cat. 7, S/FTP, Supplied:</p> <ul style="list-style-type: none"> – Real10 Cat. 7, S/FTP cable – Foil and tin-plated copper braid shielding – 100 Ω impedance – Data transmission frequency of up to 900 MHz 	500	R35060	●
	<p>Siamese Cable, Real10 Cat. 7, S/FTP, Supplied:</p> <ul style="list-style-type: none"> – Real10 Cat. 7, S/FTP cable – Foil and tin-plated copper braid shielding – 100 Ω impedance – Data transmission frequency of up to 900 MHz 	500	R35061	●
	<p>Installation Cable, Real10 Cat. 7, S/FTP, Supplied:</p> <ul style="list-style-type: none"> – Real10 Cat. 7, S/FTP cable – Foil and tin-plated copper braid shielding – 100 Ω impedance – Data transmission frequency of up to 1200 MHz 	500	R306258	●

RJ45 Connection Modules, Cat.5e/Cat.6

010.2857



- Gold-plated contact surface, tin-plated IDC surface
- Suitable for the entire range of R&M freenet patch panels and outlets
- Tool-free termination
- Wiring TIA/EIA 568 A and B compliant, parallel pair termination without splitting pair 3,6
- Color wiring diagram and production date label
- 360° shield coverage with shielded version
- Simple shield termination with integrated cable strain relief
- Lead-free shield coating
- Halogen-free materials

1

010.2858



2

010.2022.2



3

010.2023



4

010.2857



5

010.2016.1



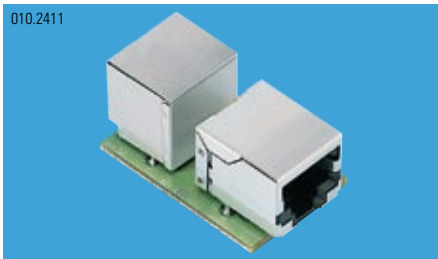
6

010.2016



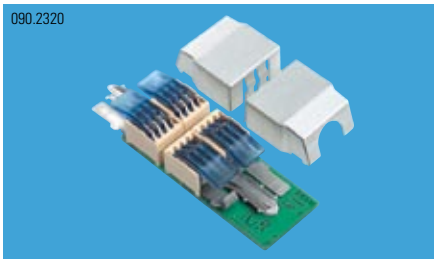
7

010.2411



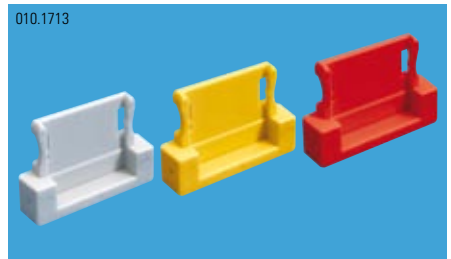
8

090.2320



9

010.1713



Products

Products	Page
1 RJ45 Connection Modules, Cat. 5e	CU 28
2 RJ45 Connection Modules, Snap-in, Cat. 5e	CU 30
3 RJ45 Connection Modules, Special, Cat. 5e	CU 32
4 RJ45 Connection Modules, Cat. 6	CU 33
5 RJ45 Connection Modules, Snap-in, Cat. 6	CU 35

Products

Products	Page
6 RJ45 Connection Modules, Special, Cat. 6	CU 37
7 RJ45 Coupler Module, Cat. 5e	CU 39
8 EasyLock Coupler Module, Cat. 6	CU 40
9 RJ45 Connection Modules, Accessories	CU 41

010.2857



- Gold-plated contact surface, tin-plated IDC surface
- Suitable for the entire range of R&Mfreenet patch panels and outlets
- Tool-free termination
- Wiring TIA/EIA 568 A and B compliant, parallel pair termination without splitting pair 3,6
- Color wiring diagram and production date label
- 360° shield coverage with shielded version
- Simple shield termination with integrated cable strain relief
- Lead-free shield coating
- Halogen-free materials

Products	Page
1 Techn. Data Connection Modules Cat. 5e	CU 43
2 Techn. Data Connection Modules Cat. 6	CU 46
3 Techn. Data Coupler Module Cat. 5e	CU 50
4 Techn. Data Cable Coupler Cat. 6/s	CU 52

RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Cat. 5e

010.2858



Features

- Compliant with Cat. 5e requirements of relevant cabling standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568B)
- Reach Cat. 5e values of IEC 60603-7 together with R&M Cat. 5e patch cords of the R&Mfreenet cabling system
- 3dB better NEXT values at 100 MHz than Cat. 5 (1995)
- Compatible with Cat. 5e standard plugs
- SGS certified

Ordering Information

Description

PU

Part Number

010.2858



Connection Module, Cat. 5e, 1x RJ45/u

Supplied:

- RJ45 Cat. 5e connection module, unshielded
- Mounting plate
- Dust cover
- Cable tie
- Installation instructions

10

R925371



010.2858



Connection Module, Cat. 5e, 100x RJ45/u

Supplied:

- RJ45 Cat. 5e connection module, unshielded
- Mounting plate
- Dust cover
- Cable tie
- Installation instructions

100

R304326



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.

010.2860



Connection Module, Cat. 5e, 1x RJ45/s

Supplied:

- RJ45 Cat. 5e connection module, shielded
- Mounting plate
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

10

R925370



010.2860



Connection Module, Cat. 5e, 100x RJ45/s

Supplied:

- RJ45 Cat. 5e connection module, shielded
- Mounting plate
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

100

R304325



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.

RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Snap-in, Cat. 5e



Ordering Information

Description

PU

Part Number



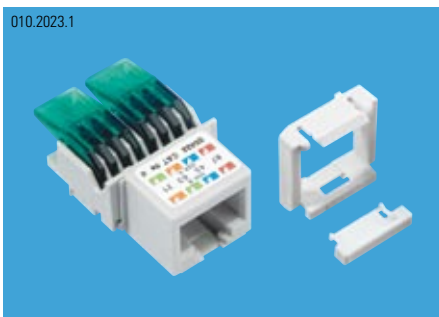
Connection Module, Cat. 5e, 1x RJ45/u, Snap-in

Supplied:

- RJ45 Cat. 5e connection module, unshielded
- Snap-in adapter
- Dust cover
- Cable tie
- Installation instructions

10

R302518



Connection Module, Cat. 5e, 100x RJ45/u, Snap-in

Supplied:

- RJ45 Cat. 5e connection module, unshielded
- Snap-in adapter
- Dust cover
- Cable tie
- Installation instructions

100

R308733



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.



Connection Module, Cat. 5e, 1x RJ45/s, Snap-in

Supplied:

- RJ45 Cat. 5e connection module, shielded
- Snap-in adapter
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

10

R302780



010.2022.2



Connection Module, Cat. 5e, 100x RJ45/s, Snap-in

Supplied:

- RJ45 Cat. 5e connection module, shielded
- Snap-in adapter
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

100

R308731



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.

RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Special, Cat. 5e



Ordering Information

Description

PU

Part Number



Connection Module, Cat. 5e, 1x RJ45/u, Special

Supplied:

- RJ45 Cat. 5e connection module, unshielded, without mounting plate
- Dust cover
- Cable tie
- Installation instructions

20

R305112



Connection Module, Cat. 5e, 1x RJ45/s, Special

Supplied:

- RJ45 Cat. 5e connection module, shielded, without mounting plate
- EMC cover
- Dust cover
- Cable tie
- Installation instructions

20

R305111



Connection Module, Cat. 5e, 1x RJ45/s, Flap Jack

- The module is designed for use with Flap Jack Module Holder and Flap Jack Wall Plate.

Supplied:

- RJ45 Cat. 5e connection module, shielded, without mounting plate
- Modified EMC cover
- Dust cover
- Cable tie
- Installation instructions

20

R305763



010.2857



Features

- As part of a Real10 Cat. 6 channel, the Real10 connection module exceeds the minimum requirements of the IEEE 802.3an draft on 10GBASE-T performance
- Exceeds Cat. 6 specifications acc. to ISO/IEC 11801, EN 50173 and TIA/EIA 568B in the entire admissible range
- Maximum reliability through special contact design without internal transfer points.
- Capacitive and inductive compensation
- Delta, GHMT and 3P certified

Ordering Information

Description

PU

Part Number

010.2857



Connection Module, Cat. 6, 1x RJ45/u

- Supplied:
- RJ45 Cat. 6 connection module, unshielded
 - Mounting plate
 - Dust cover
 - Cable tie
 - Installation instructions

10

R302373



010.2857



Connection Module, Cat. 6, 100x RJ45/u

- Supplied:
- RJ45 Cat. 6 connection module, unshielded
 - Mounting plate
 - Dust cover
 - Cable tie
 - Installation instructions

100

R304328



Special packing unit for installers.

100 x RJ45 connection modules. Saves time and waste.

090.2213



Connection Module, Real10 Cat. 6, 1x RJ45/u

- Supplied:
- RJ45 Real10 Cat. 6 connection module, unshielded
 - Mounting plate
 - WARP cover
 - Dust cover
 - Cable tie
 - Installation instructions

10

R313064



RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Cat. 6
Real10 Cat. 6



Connection Module, Real10 Cat. 6, 100x RJ45/u

- Supplied:
- RJ45 Real10 Cat. 6 connection module, unshielded
 - Mounting plate
 - WARP cover
 - Dust cover
 - Cable tie
 - Installation instructions

100 R313083

i **Special packing unit for installers.**
 100 x RJ45 connection modules. Saves time and waste.



Connection Module, Real10 Cat. 6, 1x RJ45/s

- Supplied:
- RJ45 Real10 Cat. 6 connection module, shielded
 - Mounting plate
 - EMC cover
 - Dust cover
 - Cable tie
 - Installation instructions

10 R302372



Connection Module, Real10 Cat. 6, 100x RJ45/s

- Supplied:
- RJ45 Real10 Cat. 6 connection module, shielded
 - Mounting plate
 - EMC cover
 - Dust cover
 - Cable tie
 - Installation instructions

100 R304327

i **Special packing unit for installers**
 100 x RJ45 connection modules. Saves time and money.



Ordering Information

Description

PU

Part Number



Connection Module, Cat. 6, 1x RJ45/u, Snap-in

- Supplied:
- RJ45 Cat. 6 connection module, unshielded
 - Snap-in adapter
 - Dust cover
 - Cable tie
 - Installation instructions

10

R304374



Connection Module, Cat. 6, 100x RJ45/u, Snap-in

- Supplied:
- RJ45 Cat. 6 connection module, unshielded
 - Snap-in adapter
 - Dust cover
 - Cable tie
 - Installation instructions

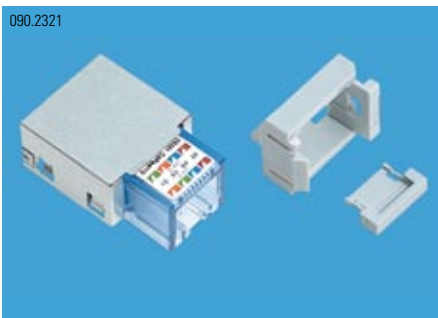
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R308734



Special packing unit for installers

100 x RJ45 connection modules. Saves time and money.



Connection Module, Real10 Cat. 6, 1x RJ45/u, Snap-in

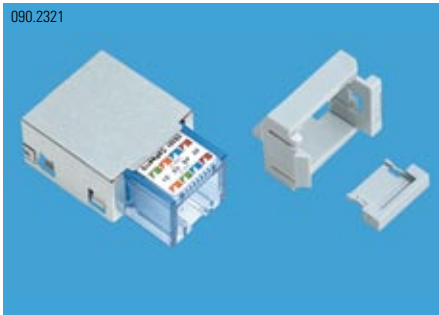
- Supplied:
- RJ45 Real10 Cat. 6 connection module, unshielded
 - Snap-in adapter
 - WARP cover
 - Dust cover
 - Cable tie
 - Installation instructions

10

R313090



RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Snap-in, Cat. 6
Real10 Cat. 6



Connection Module, Real10 Cat. 6, 100x RJ45/u, Snap-in

- Supplied:
- RJ45 Real10 Cat. 6 connection module, unshielded
 - Snap-in frame
 - WARP cover
 - Dust cover
 - Cable tie
 - Installation instructions

100

R313092



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.



Connection Module, Real10 Cat. 6, 1x RJ45/s, Snap-in

- Supplied:
- RJ45 Real10 Cat. 6 connection module, shielded
 - Snap-in adapter
 - EMC cover
 - Dust cover
 - Cable tie
 - Installation instructions

10

R304373



Connection Module, Real10 Cat. 6, 100x RJ45/s, Snap-in

- Supplied:
- RJ45 Real10 Cat. 6 connection module, shielded
 - Snap-in adapter
 - EMC cover
 - Dust cover
 - Cable tie
 - Installation instructions

100

R308732



Special packing unit for installers

100 x RJ45 connection modules. Saves time and waste.



Ordering Information	Description	PU	Part Number
<p>010.2017</p>	<p>Connection Module, Cat. 6, 1x RJ45/u, Special Supplied: – RJ45 Cat. 6 connection module, unshielded, without mounting plate – Dust cover – Cable tie – Installation instructions</p>	20	R305114 ●
<p>090.2317</p>	<p>Connection Module, Real10 Cat. 6, 1x RJ45/u, Special Supplied: – RJ45 Real10 Cat. 6 connection module, unshielded, without mounting plate – WARP cover – Dust cover – Cable tie – Installation instructions</p>	20	R313084 ●
<p>010.2016</p>	<p>Connection Module, Real10 Cat. 6, 1x RJ45/s, Special Supplied: – RJ45 Real10 Cat. 6 connection module, shielded, without mounting plate – EMC cover – Dust cover – Cable tie – Installation instructions</p>	20	R305113 ●

RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Special, Cat. 6
Real10 Cat. 6

090.2317



**Connection Module, Real10 Cat. 6, 1x RJ45/u,
Flap Jack**

– The module is designed for use with Flap Jack
Module Holders and Flap Jack Wall Plate.

Supplied:

- RJ45 Real10 Cat. 6 connection module, unshielded,
without mounting plate
- Modified WARP cover
- Dust cover
- Cable tie
- Installation instructions

20

R313103



010.2016



**Connection Module, Real10 Cat. 6, 1x RJ45/s,
Flap Jack**

– The module is designed for use with Flap Jack
Module Holders and Flap Jack Wall Plate.

Supplied:

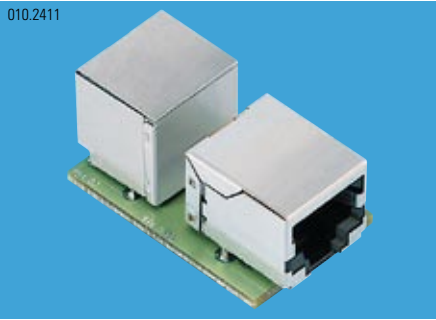
- RJ45 Real10 Cat. 6 connection module, shielded,
without mounting plate
- Modified EMC cover
- Dust cover
- Cable tie
- Installation instructions

20

R305764



010.2411



Features

- Compliant with Cat. 5e requirements of relevant cabling standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568B)
- Attains Cat. 5e values of connecting hardware standards IEC 60603-7 together with R&M Cat. 5e patch cords of the R&Mfreenet cabling system
- 3dB better NEXT values at 100 MHz than Cat. 5 (1995)
- Compatible with Cat. 5e standard plugs

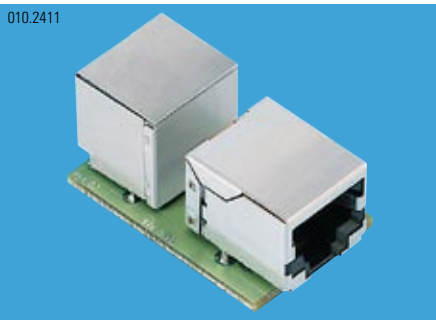
Ordering Information

Description

PU

Part Number

010.2411



RJ45 Coupler Module, Cat. 5e/s

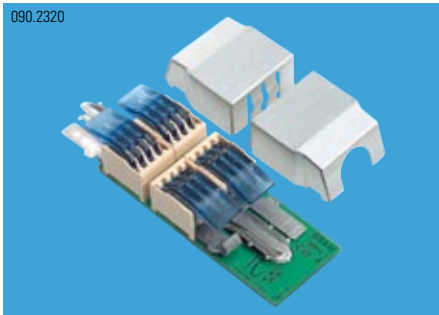
- The R&M Cat. 5e coupler module is ideal for voice and data transmission at frequencies of up to 100 MHz.

1

R307301



RJ45 Connection Modules, Cat.5e/Cat.6
EasyLock Coupler Module, Cat. 6



Features

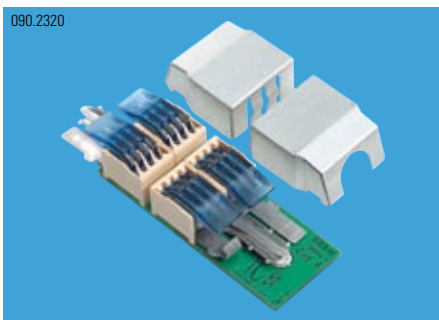
- Exceeds Cat. 6 specifications of ISO/IEC 11801, EN 50173 and TIA/EIA 568B
- Suitable for transmission frequencies of up to 250 MHz
- Best transmission characteristics with R&Mfreenet Cat. 6 cords
- Tool-free termination of solid wire installation cables AWG22-30 or stranded wire cables AWG 24/7-26/7
- Simple and time-saving shield termination with integrated cable strain relief
- 360° shielding
- Tin-plated insulation displacement contact (IDC)
- The IDC block labyrinth keeps the wires vibration protected
- Straight wiring
- Halogen-free materials

Ordering Information

Description

PU

Part Number

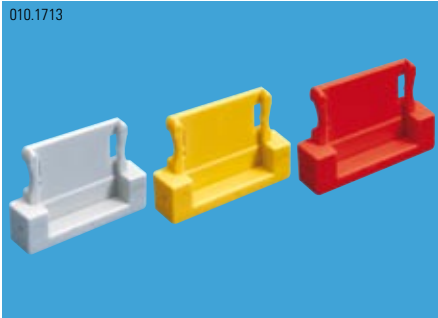


EasyLock Cable Coupler, Cat. 6/s

- The EasyLock cable coupler of the R&Mfreenet cabling system is ideal for extending or moving a cable or terminal outlet with a minimum of effort and cost.

1

R313356



Ordering Information

Description

PU

Part Number



010.2776

Module Holder Tool

– A small tool of great use.
 For removing three parts:
 – module mounting plate
 – RCC45 adapter frame POF
 – clip

10

R308261



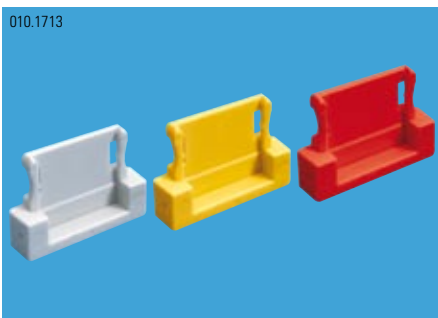
090.2376

Cable Jacket Stripper

Supplied:
 – Stripping tool, red, for round and oval cables up to
 Ø-11 mm

1

R300682



010.1713

Snap-in Coding Clip,

– Color coding clip for snap-in adapters and the
 multimedia outlet.

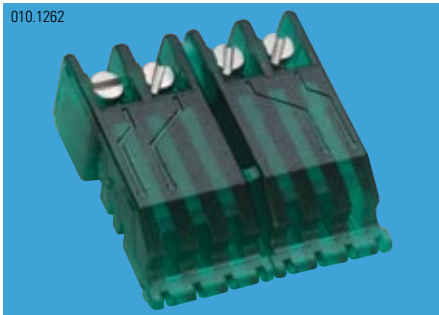
Supplied:
 – Snap-in color coding clip

anthracite
blue
brown
green
red
violet
white
yellow

10
 10
 10
 10
 10
 10
 10
 10

R302151
 R302152
 R302153
 R302154
 R302155
 R302156
 R302157
 R302158

RJ45 Connection Modules, Cat.5e/Cat.6
RJ45 Connection Modules, Accessories
Cat. 5e, Cat. 6

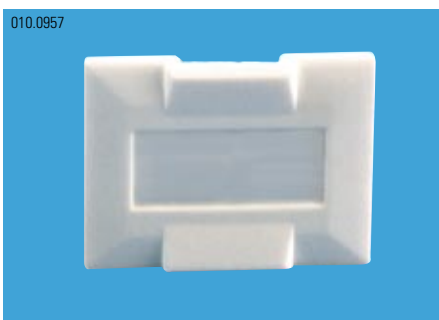


010.1262

Screw Clip

- Screw connections, suitable for single and twin pair applications. Ideal for ISDN and comparable installations (pin assignment 1-2/7-8 or 3-6/4-5).
- The screw connections are designed for stranded and solid wire cables of diameter 2x0.8 mm. They comply with the Cat. 5 requirements of the connecting hardware standards ISO/IEC 11801 and EN 50173. Subsequent termination of the connection modules without the Screw Clip is guaranteed.
- The clips are compatible with all connection modules and all R&M products featuring the EasyLock connection design (e.g. voice patch panels).

10 R35293

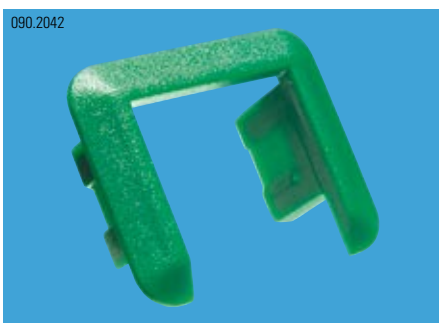


010.0957

Dust Cover for RJ45 Jack, white

- Protects RJ45 jack contacts from dirt and dust.

100 R925602



090.2042

Plug Reduction Frame RJ45 to RJ11/RJ12,

- Prevents RJ45 plugs (data) being plugged into RJ45 outlets defined as telephone sockets (RJ11 connectors) by mistake.
 - Compatible with R&M RJ45 modules.
- Supplied:
- Plug reduction frame RJ45 - RJ11/12

mint green

10 R310835

010.2858

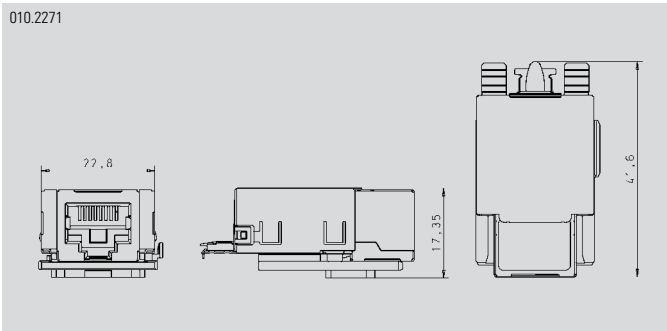


Cat. 5e features

- Compliant with Cat. 5e requirements of relevant cabling standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568B)
- Reach Cat. 5e values of IEC 60603-7 together with R&M Cat. 5e patch cords of the R&Mfreenet cabling system
- 3dB better NEXT values at 100 MHz than Cat. 5 (1995)
- Gold-plated contact surface
- Compatible with standard Cat. 5e plugs
- Suitable for the entire range of R&Mfreenet patch panels and outlets
- Tool-free termination of AWG 22-24 installation cables
- Wiring TIA/EIA 568 A and B compliant, parallel pair termination without pair crossover
- Color wiring diagram and production date label
- 360° shield coverage with shielded version
- Fast and simple patented shield contacting with integrated cable strain relief
- Lead-free shield coating
- Halogen-free materials
- SGS certified

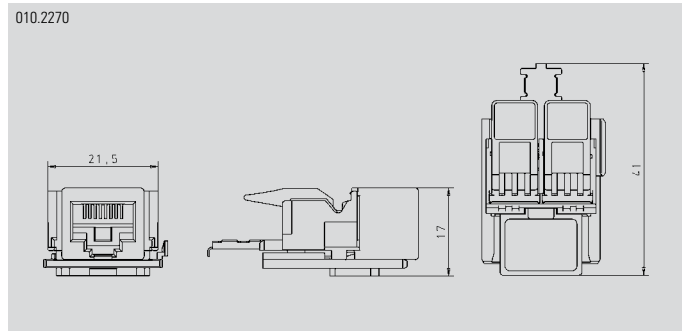
Dimensions, shielded

010.2271



Dimensions, unshielded

010.2270



Specifications RJ45 Connection Modules, Cat. 5e

Standards

IEC 60603-7: Electrical Characteristics of the Telecommunication Outlets

ISO/IEC 11801, Second Edition: September 2002

EN 50173-1: November 2002

1.0 Mechanical data

Description	Data / value
Number of RJ45 jacks	1
Operating temperature range	- 10°C to 60 °C
Storage temperature range	- 40 °C to 70 °C
Humidity	95% (non-condensing)
Contact material	CuSn
Contact surface	> 0.7 µm gold over > 1.2 µm nickel
Housing material	Polycarbonate (UL-94-V0)
Number of IDC connections	8 / jack
IDC contact material	CuSn, tin-plated > 5 µm
Admissible wire-Ø	0.5 mm (AWG24) - 0.65 mm (AWG22)
Admissible insulation-Ø	0.8 mm - 1.6 mm
Wire strain relief through	Labyrinth in IDC-block
Cable strain relief through	Cable tie
Shield contact on plug through	Contact springs (on plugs)
Shield contact on installation cable	Large surface with shield lance (on cable)
Earth contacting	2 contact fingers for flat plug 4.8 x 0.5 mm
Shield material	CuSn, tin-plated 2 - 4 µm

1.1 Mechanical data

Description	Standard value	Relevant standard	Typical value (at 20°C)
Mating cycles min.	> 750	ISO/IEC 11801, second Ed.	> 1000
Insertion cycles installation cables	> 20	ISO/IEC 11801, second Ed.	> 20

2.0 Electrical Data

Description	Standard value	Relevant standard	Typical value (at 20°C)
Electric strength	1000 V DC oder AC Peak	IEC 60603-7	> 1000 V (eff)
Insulation resistance	> 500 MΩ (500 V DC)	IEC 60603-7	> 500 MΩ (500 V DC)
Contact resistance	< 300 mΩ	IEC 60603-7	< 100 mΩ

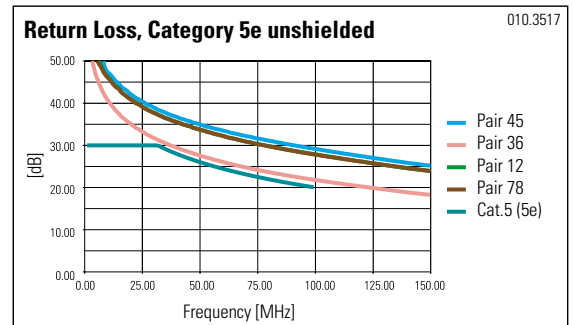
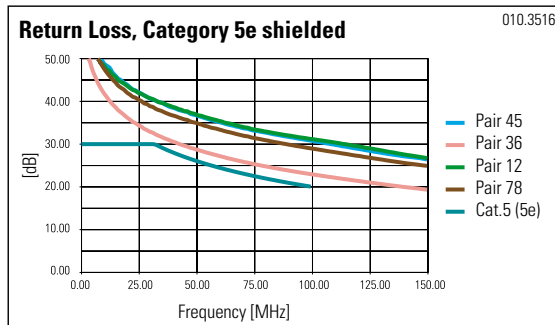
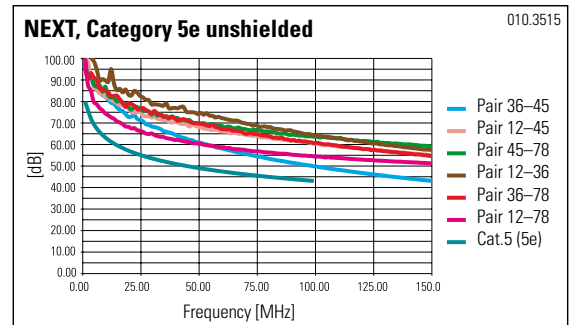
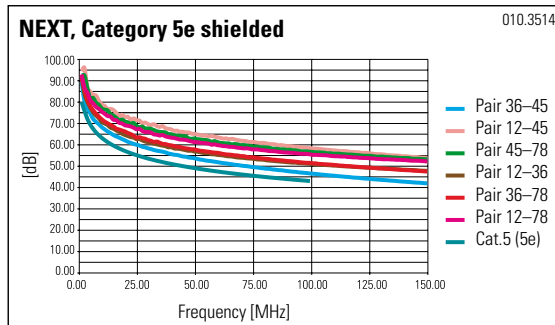
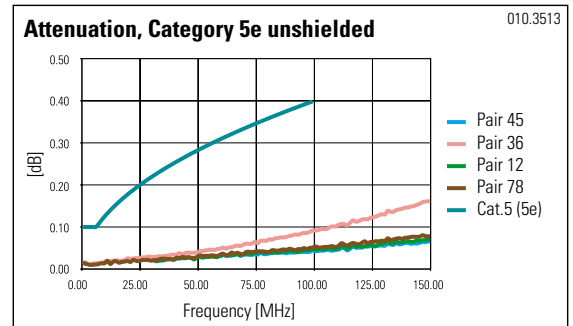
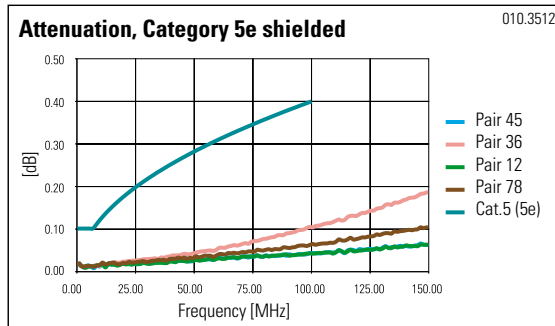
Transfer impedance

Frequency	Standard value	Relevant standard	Typical value (at 20°C)
1 MHz	< 100 mΩ	EN 50173	< 20 mΩ
10 MHz	< 200 mΩ	EN 50173	< 50 mΩ
30 MHz	< 620 mΩ	EN 50173	< 200 mΩ

Measured values:

RJ45 Connection modules, Cat. 5e

Frequency	Attenuation (20°C)		NEXT(20°C)		Return Loss (20°C)	
	shielded	unshielded	shielded	unshielded	shielded	unshielded
1.00 MHz	0.02 dB	0.02 dB	89.43 dB	97.89 dB	52.67 dB	56.45 dB
4.00 MHz	0.01 dB	0.01 dB	76.21 dB	90.59 dB	48.64 dB	48.48 dB
10.00 MHz	0.01 dB	0.02 dB	68.03 dB	81.81 dB	41.69 dB	40.74 dB
16.00 MHz	0.02 dB	0.02 dB	63.89 dB	76.07 dB	37.89 dB	36.80 dB
20.00 MHz	0.02 dB	0.03 dB	61.93 dB	72.86 dB	36.11 dB	35.08 dB
31.25 MHz	0.03 dB	0.03 dB	57.89 dB	67.98 dB	32.55 dB	31.44 dB
62.50 MHz	0.06 dB	0.05 dB	51.39 dB	57.45 dB	26.84 dB	25.70 dB
100.00 MHz	0.10 dB	0.09 dB	46.53 dB	49.79 dB	22.93 dB	21.79 dB
125.00 MHz	0.14 dB	0.12 dB	44.06 dB	46.11 dB	21.02 dB	19.90 dB
155.00 MHz	0.20 dB	0.17 dB	41.56 dB	42.55 dB	19.07 dB	17.96 dB



010.2857

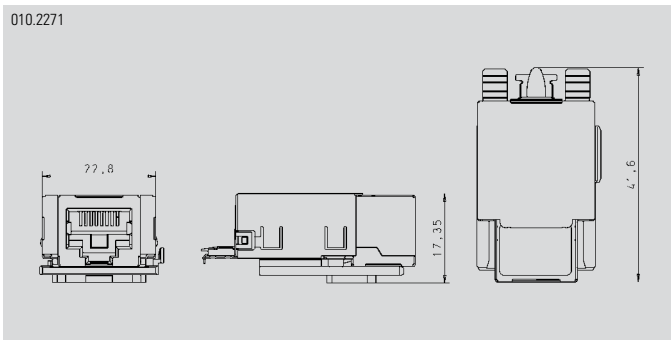


Cat. 6 features

- As part of a Real10 Cat. 6 channel the Real10 connection module exceeds the minimum requirements of the IEEE 802.3an draft on 10GBASE-T performance
- Exceeds Cat. 6 specifications (mated) of ISO/IEC 11801, EN 50173 and TIA/EIA 568B in the entire de-embedded plug range
- Reaches Cat. 6 values of IEC 11801, second edition, together with Cat. 6 patch cords
- Best transmission characteristics with R&Mfreenet Cat. 6 patch cords
- 11 dB better NEXT values than Cat. 5e at 100 MHz
- NEXT performance is tripled and bandwidth performance is doubled compared to Cat. 5e in the channel
- Gold-plated contact surface and tin-plated insulation displacement contact surface
- Maximum reliability through special contact design without internal transfer points
- Capacitive and inductive compensation
- Compatible with standard Cat. 6 plugs
- Full mechanical and electrical backward compatibility with Cat. 5e and Cat. 5
- Suitable for the entire range of R&Mfreenet patch panels and outlets, special adapters also allow use of face plates of selected third-party manufacturers
- Tool-free termination of solid wire installation cables AWG 22-24, as well as stranded cables AWG 22/7-26/7
- Termination of cables with smaller or larger conductor diameters possible with the Screw Clip (R35293)
- Wiring option wiring in accordance with TIA/EIA 568 A and B, parallel pair termination without splitting pair 3,6
- Color wiring diagram and production date label
- 360° shield coverage with shielded version
- Fast and simple patented shield contact with integrated cable strain relief
- Lead-free shield coating
- Halogen-free materials
- Delta, GHMT, 3P certified

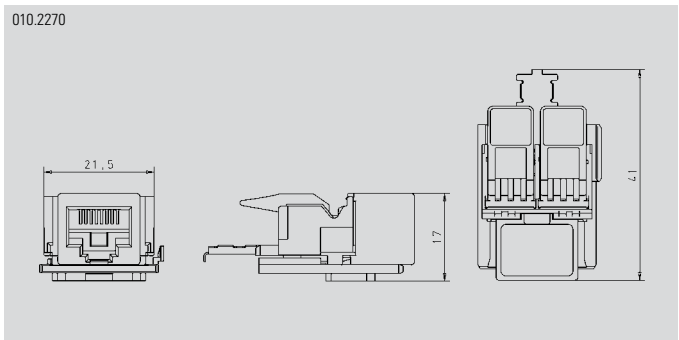
Dimensions, shielded

010.2271



Dimensions, unshielded

010.2270



Specifications RJ45 Connection Modules, Cat. 6

Standards

IEC 60603-7: Electrical Characteristics of the Telecommunication Outlets

ISO/IEC 11801, Second Edition: September 2002

EN 50173-1: November 2002

1.0 Mechanical Data

Description	Data / Value
Number of RJ45 jacks	1
Operating temperature range	- 10°C to 60 °C
Storage temperature range	- 40 °C to 70 °C
Humidity	95% (non-condensing)
Contact material	CuSn
Contact surface	> 0.76 µm gold over > 1.2 µm nickel
Housing material	Polycarbonate (UL-94-V0)
Number of IDC (Insulation Displacement Contact) connections	8 / jack
IDC Contact material	CuSn, tin-plated
Admissible wire-Ø	0.5 mm (AWG24) - 0.65 mm (AWG22)
Admissible strand-Ø	AWG26/7 - AWG22/7
Admissible insulation-Ø	0.8 mm - 1.6 mm
Wire strain relief through	Labyrinth in IDC-block
Cable strain relief through	Cable tie
Shield contact on plug through	Contact springs (on plugs)
Shield contact on installation cable	Large surface with shield lance (on cable)
Earth contact	2 contact fingers for flat plug 4.8 x 0.5 mm
Shield material	CuSn, tin-plated 2 - 4 µm

1.1 Mechanical Data

Description	Standard value	Relevant Standard	Typical value (at 20°C)
Mating cycles min.	> 750	ISO/IEC 11801, second Ed.	> 1000
Insertion cycles installation cables	> 20	ISO/IEC 11801, second Ed.	> 20

2.0 Electrical Data

Description	Standard value	Relevant Standard	Typical value (at 20°C)
Electric strength	1000 V DC oder AC Peak	IEC 60603-7	> 1000 V (eff)
Insulation resistance	> 500 MΩ (500 V DC)	IEC 60603-7	> 500 MΩ (500 V DC)
Contact resistance	< 200 mΩ	IEC 60603-7	< 50 mΩ

Transfer impedance	Typical value (at 20°C)	Typical value (at 20°C)
Frequency	EN 50173 value	(Standard installation) (Deluxe installation)
1 MHz	< 100 mΩ	< 75 mΩ < 50 mΩ
10 MHz	< 200 mΩ	< 150 mΩ < 100 mΩ
30 MHz	< 600 mΩ	< 450 mΩ < 300 mΩ
80 MHz	< 1600 mΩ	< 1200 mΩ < 800 mΩ
100 MHz	< (2000 mΩ)	< 1500 mΩ < 1000 mΩ

Measured values (at 20°C):

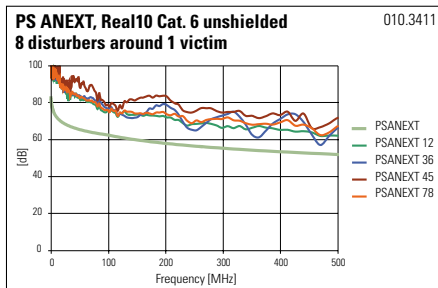
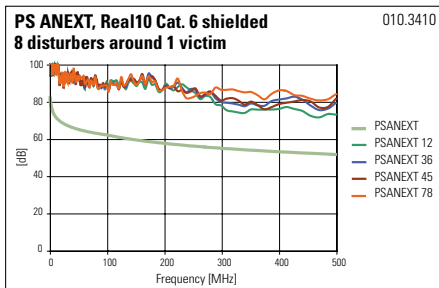
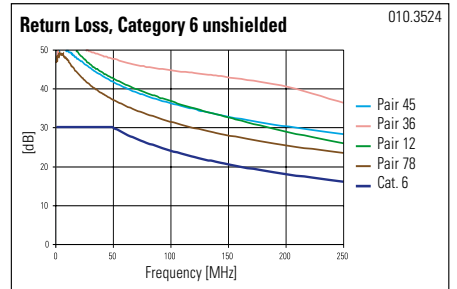
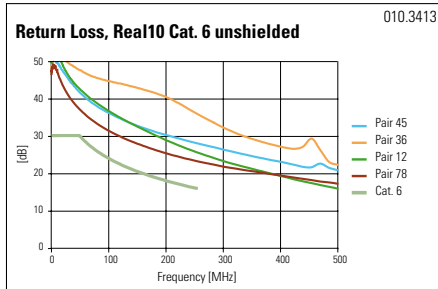
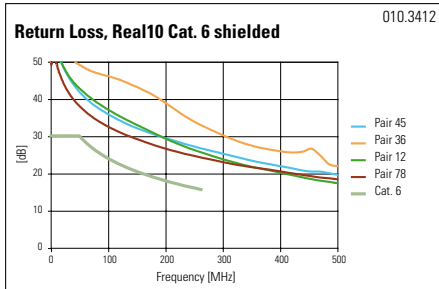
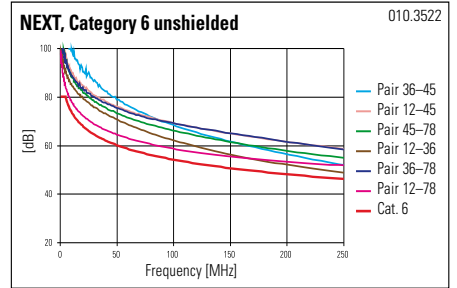
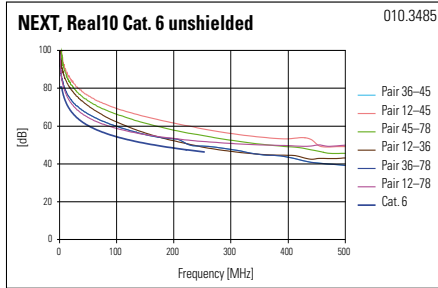
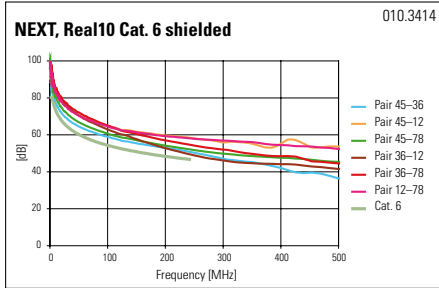
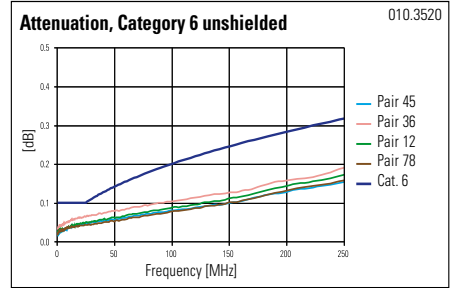
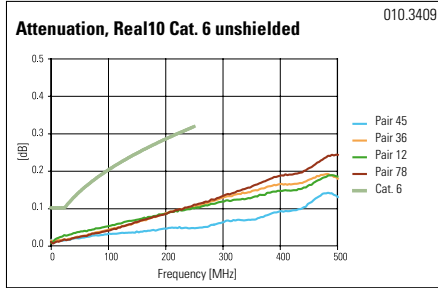
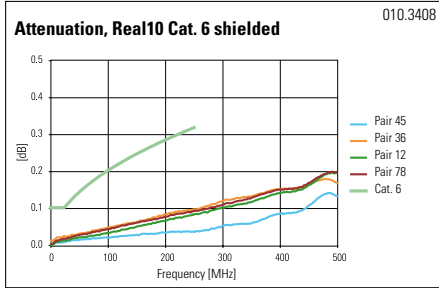
RJ45 Connection Modules, Real10 Cat. 6

Frequency	Attenuation		NEXT		Return Loss		PS ANEXT	
	Real10 Cat. 6		Real10 Cat. 6		Real10 Cat. 6		Real10 Cat. 6	
	shielded	unshielded	shielded	unshielded	shielded	unshielded	shielded	unshielded
1.00 MHz	0.01 dB	0.01 dB	96.9 dB	96.1 dB	49.0 dB	46.5 dB	97.4 dB	92.5 dB
4.00 MHz	0.01 dB	0.01 dB	85.2 dB	86.3 dB	51.7 dB	48.8 dB	100.4 dB	95.8 dB
10.00 MHz	0.02 dB	0.02 dB	77.6 dB	78.4 dB	49.4 dB	47.6 dB	97.5 dB	93.5 dB
16.00 MHz	0.02 dB	0.02 dB	73.9 dB	74.2 dB	46.5 dB	45.2 dB	90.7 dB	89.1 dB
20.00 MHz	0.02 dB	0.02 dB	72.0 dB	72.2 dB	45.0 dB	43.7 dB	90.4 dB	88.6 dB
31.25 MHz	0.02 dB	0.03 dB	68.3 dB	68.4 dB	41.6 dB	40.6 dB	94.7 dB	84.1 dB
62.50 MHz	0.03 dB	0.04 dB	62.6 dB	62.5 dB	36.3 dB	35.3 dB	90.4 dB	80.0 dB
100.00 MHz	0.05 dB	0.05 dB	58.7 dB	58.5 dB	32.6 dB	31.4 dB	85.3 dB	74.4 dB
125.00 MHz	0.05 dB	0.06 dB	56.5 dB	56.7 dB	30.7 dB	29.5 dB	88.0 dB	72.5 dB
155.00 MHz	0.06 dB	0.07 dB	54.8 dB	54.9 dB	28.9 dB	27.7 dB	90.5 dB	72.9 dB
175.00 MHz	0.07 dB	0.08 dB	53.9 dB	53.8 dB	27.9 dB	26.6 dB	89.1 dB	72.7 dB
200.00 MHz	0.08 dB	0.09 dB	52.6 dB	52.0 dB	26.6 dB	25.4 dB	87.5 dB	71.6 dB
250.00 MHz	0.10 dB	0.11 dB	48.7 dB	49.1 dB	24.7 dB	23.4 dB	83.1 dB	64.7 dB
300.00 MHz	0.12 dB	0.13 dB	45.9 dB	47.4 dB	23.0 dB	21.8 dB	75.4 dB	66.9 dB
400.00 MHz	0.15 dB	0.19 dB	41.8 dB	43.2 dB	20.2 dB	19.3 dB	77.2 dB	65.0 dB
500.00 MHz	0.20 dB	0.24 dB	36.2 dB	38.9 dB	17.4 dB	15.9 dB	73.1 dB	61.8 dB

Measured values:

RJ45 Connection Modules, Cat. 6

Frequency	Attenuation (20°C)	NEXT (20°C)	Return Loss (20°C)
	Cat. 6	Cat. 6	Cat. 6
	unshielded	unshielded	unshielded
1.00 MHz	0.03 dB	98.9 dB	32.1 dB
4.00 MHz	0.04 dB	86.0 dB	29.6 dB
10.00 MHz	0.05 dB	78.4 dB	30.6 dB
16.00 MHz	0.06 dB	74.2 dB	37.4 dB
20.00 MHz	0.06 dB	72.3 dB	33.6 dB
31.25 MHz	0.07 dB	68.4 dB	37.7 dB
62.50 MHz	0.09 dB	62.5 dB	34.0 dB
100.00 MHz	0.10 dB	58.5 dB	35.6 dB
125.00 MHz	0.11 dB	56.7 dB	32.0 dB
155.00 MHz	0.13 dB	55.0 dB	29.2 dB
175.00 MHz	0.14 dB	53.8 dB	29.7 dB
200.00 MHz	0.16 dB	51.9 dB	27.0 dB
250.00 MHz	0.19 dB	48.7 dB	25.0 dB



Specifications Coupler Module, Cat. 5e

Standards

IEC 60603-7: Electrical Characteristics of the Telecommunication Outlets

ISO/IEC 11801, Second Edition: September 2002

EN 50173-1: November 2002

Mechanical data

Description	Data / value
Number of RJ45 jacks	2
Number of contacts	8 / jack
Operating temperature range	- 10 °C to 60 °C
Assembly temperature range	- 10 °C to 60 °C
Storage temperature range	- 40 °C to 70 °C
Humidity	95% (non-condensing)
Contact material	Phosphor bronze
Contact surface	Gold over nickel plating
Housing material	Thermoplastic (UL-94-V0)
Shield material	Tin-plated brass

Mechanical data

Description	Standard value	Relevant standard	Typical value (at 20°C)
Insertion cycles	> 750	ISO/IEC 11801, second Ed.	> 750

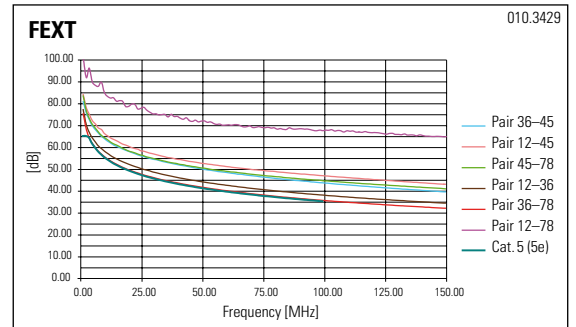
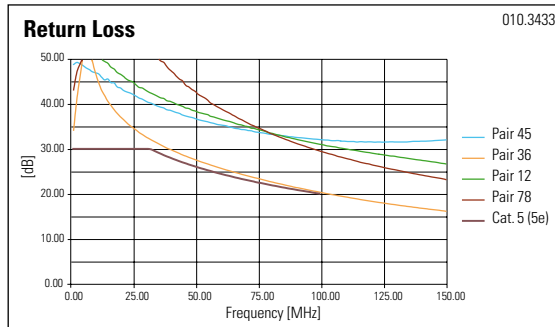
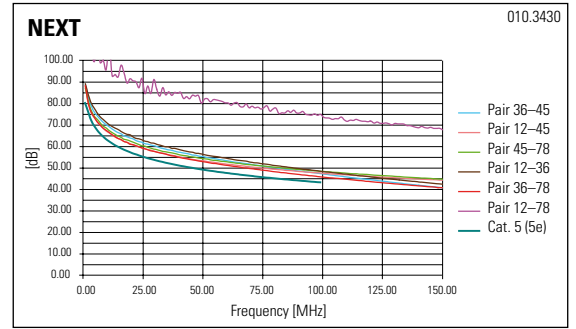
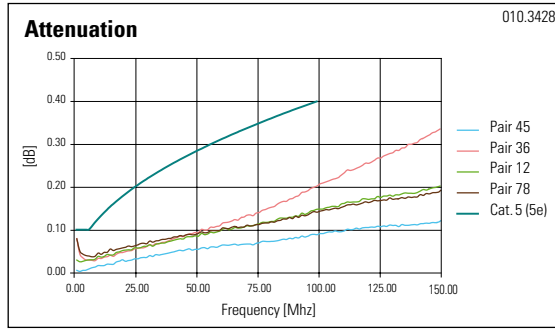
Electrical data

Description	Standard value	Relevant standard	Typical value (at 20°C)
Dielectric strength	> 1000 V (eff)	IEC 60512-4a	> 1000 V (eff)
Insulation resistance	> 500 MΩ	IEC 60512-3a	> 500 MΩ (500 V DC)
Voltage rating	72 V DC	ISO/IEC 11801	-
Contact resistance	200 mΩ	IEC 60603-7	< 100 mΩ

Measured values:

Coupler Module, Cat. 5e

Frequency	Attenuation (20°C)		NEXT(20°C)		Return Loss (20°C)	
	shielded		shielded		shielded	
1.00 MHz	0.08 dB		86.9 dB		34.1 dB	
4.00 MHz	0.04 dB		74.6 dB		47.9 dB	
10.00 MHz	0.05 dB		66.8 dB		46.5 dB	
16.00 MHz	0.05 dB		62.9 dB		39.6 dB	
20.00 MHz	0.06 dB		60.9 dB		37.0 dB	
31.25 MHz	0.07 dB		57.1 dB		32.3 dB	
62.50 MHz	0.12 dB		50.7 dB		25.3 dB	
100.00 MHz	0.20 dB		45.7 dB		20.4 dB	



Specifications EasyLock Cable Coupler, Cat. 6

Standards

IEC 60603-7: Electrical Characteristics of the Telecommunication Outlets

ISO/IEC 11801, Second Edition: September 2002

EN 50173-1: November 2002

1.0 Mechanical Data

Description	Data / Value
Number of PK94 terminal blocks	4
Number of IDC connections	4/terminal block, 8/side
Operating temperature range	- 10°C to 60 °C
Storage temperature range	- 40 °C to 70 °C
Humidity	95% (non-condensing)
Housing material	Polycarbonate (UL-94-V0)
IDC Contact material	CuSn, tin-plated
Admissible wire-Ø	0.25 mm (AWG30) - 0.65 mm (AWG22)
Admissible strand-Ø	AWG26/7 - AWG24/7
Admissible insulation-Ø	0.7 mm - 1.5 mm
Wire strain relief through	Labyrinth in IDC-block
Cable strain relief through	Cable tie

1.1 Mechanical Data

Description	Standard value	Relevant Standard	Typical value (at 20°C)
Insertion cycles installation cables *	> 20	ISO/IEC 11801, second Ed.	> 20

* The same or larger wire diameter.

2.0 Electrical Data

Description	Standard value	Relevant Standard	Typical value (at 20°C)
Electric strength	1000 V DC or AC Peak	IEC 60603-7	> 1000 V (eff)
Insulation resistance	> 500 MΩ (500 V DC)	IEC 60603-7	> 500 MΩ (500 V DC)
Contact resistance	< 200 mΩ	IEC 60603-7	< 50 mΩ

Transfer impedance

Frequency	Standard value	Relevant Standard	Typical value (at 20°C)
1 MHz	< 100 mΩ	EN-51073	< 18 mΩ
10 MHz	< 200 mΩ	EN-51073	< 115 mΩ
30 MHz	< 600 mΩ	EN-51073	< 318 mΩ
80 MHz	< 1600 mΩ	EN-51073	< 903 mΩ
100 MHz	< (2000 mΩ)		< 1100 mΩ

Measured values:

EasyLock Cable Coupler, Cat. 6

Frequenz	Attenuation (20°C) shielded	NEXT (20°C) shielded	Return Loss (20°C) shielded
1.00 MHz	0.03 dB	97.6 dB	37.7 dB
4.00 MHz	0.02 dB	86.1 dB	37.9 dB
10.00 MHz	0.02 dB	77.8 dB	37.2 dB
16.00 MHz	0.02 dB	73.7 dB	36.2 dB
20.00 MHz	0.02 dB	71.8 dB	35.6 dB
31.25 MHz	0.03 dB	67.9 dB	33.7 dB
62.50 MHz	0.04 dB	61.8 dB	29.5 dB
100.00 MHz	0.05 dB	57.8 dB	26.3 dB
125.00 MHz	0.07 dB	55.9 dB	24.6 dB
155.00 MHz	0.08 dB	54.2 dB	22.5 dB
175.00 MHz	0.08 dB	53.2 dB	21.4 dB
200.00 MHz	0.09 dB	52.2 dB	20.6 dB
250.00 MHz	0.13 dB	50.8 dB	19.5 dB

RJ45 Connectors

090.2153



2

090.2154



Products

Page

1 GetMore	CU 55
2 RJ45 Network Connector	CU 56
3 Techn. Data FM45 Connector	CU 57



Universally applicable RJ45 connector for industrial, office, enterprise and home cabling systems.

010.2936

getmore

- More installation convenience
- More performance and flexibility
- More reliability
- Unlimited connectivity

@ R&M

RJ45 Connectors
RJ45 Network Connector



Features

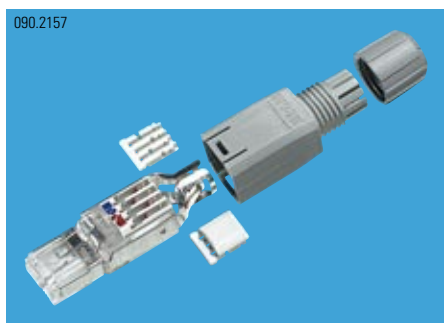
- First tool-free, field-terminated Cat. 5e/RJ45 connector
- Wide range of applications, dependable solid construction, highest Swiss quality
- Accepts unshielded (UTP) and shielded (STP) cables up to 8 mm in diameter, and wires or strands up to AWG 26
- Long-term stability, vibration resistance, strain relief and the possibility of repeated termination provided by IDC conductor contacting plus quick mounting technique
- Cable shield EMC protection > 180°
- Optical coding with color coding clips

Ordering Information

Description

PU

Part Number



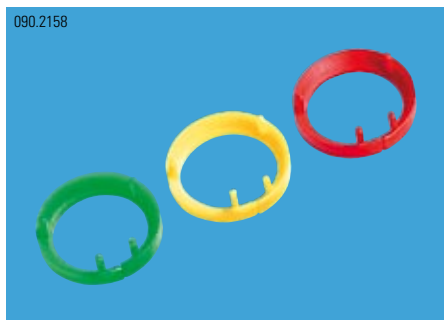
FM45 Connector,

- Field-terminated RJ45 connector.
- Supplied:
- RJ45 connector kit
 - Instruction manual

1x RJ45/s/u

10

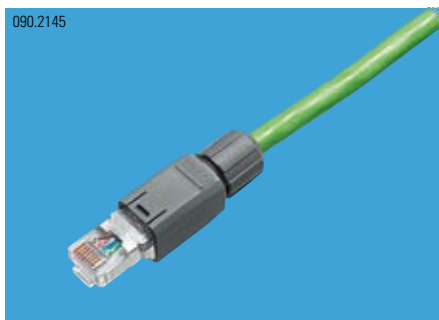
R312231



FM45 Color Coding Clip,

- Supplied:
- Color coding clip

blue	10	R311580
brown	10	R311569
yellow	10	R311579
grey	10	R311570
green	10	R311577
red	10	R311571
violet	10	R311575
anthracite	10	R311561



1. Specifications FM45 connector

1.0 Standards for transmission characteristics

Compliant with the following standards:

Standard

IEC 60 603-7 RJ45, Cat. 5

ISO/IEC 11801: IEC 60 603-7-3

EN 50173

EIA/TIA 568B

1.1 Mechanical data

Test criteria	Data / value	Standards
Pole count	8	
IDC termination technique	in compliance with	IEC 60 352-4
Wiring	in pairs (no splitting)	
Mating cycles	> 100	
Wire diameter section solid/wire	0.40 mm - 0.57 mm (AWG 26 - 23)	
Wire cross section strand/wire	0.12 mm ² - 0.26 mm ² (AWG 26/7 - 23/7)	
Insulation diameter	max. - 1.60 mm	
Suitable for round cables	Yes	
Diameter section cable sheath	4.50 mm - 8.00 mm	
Cable strain relief	> 50 N	
Wire strain relief	through plastic ribs	
Suitable for ribbon cables	No	

1.2 Material

Product	Material	Identification
Housing material	plastic	
Insulation material	polycarbonate	PC
Protection class	class V-0	UL 94
Contact material	bronze	CuSn6
Surface treatment contact surface connector	nickel / gold	1.2 μm / > 1.2 μm
Surface treatment IDC	tin-coated (lead-free)	approx. 5 μm
Shield contact material	brass	CuZn
Surface treatment shield contact	hot-galvanized	3 μm

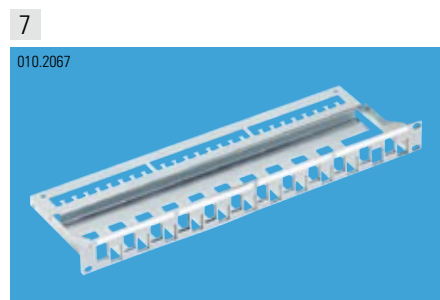
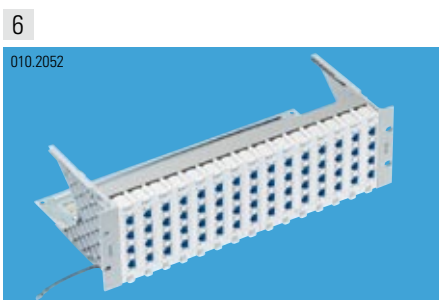
1.3 Electrical characteristics

Test criteria	Data / value	Standard
Contact resistance		
- Solid wire - IDC	< 1 mΩ	
- Stranded wire - IDC	< 5 mΩ	
- Signal contact and shield (connector - jack)	20 mΩ	
Volume resistivity connector	100 mΩ	
Insulation resistance (100 V normal climate)	> 1 GΩ	
Dielectric strength		
- Contact - contact (DC / 60 s)	> 1000 V	
- Shield - contact (DC / 60 s)	> 1500 V	
Nominal current (20°)	1.75 A	



More modularity and flexibility

- Modular combination of data, voice and fiber optics
- Solid construction for maximum operational reliability
- Shielded patch panel versions include integrated grounding systems
- Exchangeable labeling strips
- Service friendly thanks to single module assembly
- Integrated cable tie shelves



Products	Page	Products	Page
1 Introduction	CU 61	6 19" 3U Global Patch Panels, 60xRJ45	CU 69
2 Modularity Chart	CU 62	7 19" Patch Panels, empty	CU 71
3 19" 1U Patch Panels, 16xRJ45	CU 63	8 Accessories	CU 73
4 19" 1U Patch Panels, 24xRJ45	CU 65	9 Techn. Data 19" 1U Patch Panels	CU 81
5 19" 3U Global Patch Panels, 48xRJ45	CU 67		

Copper 19" Patch Panels



More modularity and flexibility

- Modular combination of data, voice and fiber optics
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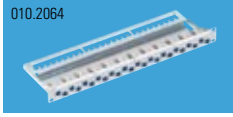

Products

Page

1 Techn. Data 19" 3U Patch Panels


CU 84

Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment. In horizontal cabling, the RJ45 ports of the patch panel are connected in a star topology by four pair installation cables to the telecommunications outlets. In this way, network equipment such as host computers, concentrators, PABXs and so forth can be easily connected to the desired telecommunications outlets by means of patch/line cables. Patch panels and connection modules comply with the standards of ISO/IEC 11801, EN 50173 and TIA/EIA 568B.

Patch Panels	19" Solution	1U	2U	3U
16 port 010.2179 	✓	16 port Page CU 63	-	-
24 port 010.2064 	✓	24 port Page CU 65	-	-
Global 010.2053 	✓	-	-	48/60 port Page CU 67


Accessories from page CU 73 onward.

Patch Panels Modular are available upon request in versions 1U, 2U, 3U and 4U.

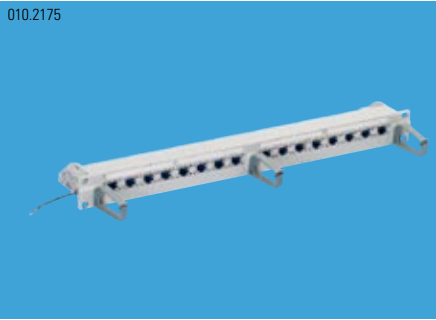
-  19" = 482.60 mm
- 1U = 44.45 mm
- 1HP = 5.08 mm
- ✓ = combination possible
- = combination not possible

**Copper 19" Patch Panels
Modularity Chart**

		Cooper 19" Patch Panels			
		unshielded	shielded		
Real10	Category 6	Connection Modules with Support Plates 090.2213  010.2859 	 19" 1U, 16 Port	 19" 1U, 24 Port	 Global 19" 3U, 48/60 Port
		Snap-in Connection Modules 090.2321  010.2016.1 	-	✓	-
STAR	Category 6	Connection Module with Support Plate 010.2857 	✓	-	✓
		Snap-in Connection Module 010.2017.1 	-	✓	-
CLASSIC	Coax	BNC Installation Socket 020.0202 	-	-	✓
		Connection Modules with Support Plates 010.2858  010.2860 	✓		✓
	Category 5e	Snap-in Connection Modules 010.2023.1  010.2022.2 	-	✓	-

 ✓ = combination possible
- = combination not possible

010.2175



Features

- Modular design with the capacity of holding 16 x shielded or unshielded single RJ45 connection modules
- Snap-in jumpering brackets
- Integrated cable tie shelf
- Shielded versions come with a complete and integrated grounding system
- Suitable for the Data Safe Lock coding system, protecting the panel against electronic damage or interferences in network operation
- Labeling window including exchangeable labeling strips
- Individual labeling with A4 labeling sheets

Ordering Information

Description

PU

Part Number

010.2177



19" 1U Patch Panel, 16xRJ45/u, Cat. 5e,

Supplied:

- 19" 1U 16-port patch panel, empty, unshielded
- 16 Cat. 5e connection modules, RJ45/u incl. dust covers
- 19" mounting kit
- 3 jumpering brackets
- 4 labeling strips
- Cable ties
- Installation instructions

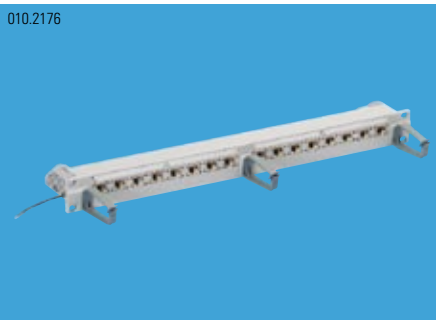
fully populated

1

R305886



010.2176



19" 1U Patch Panel, 16xRJ45/s, Cat. 5e,

Supplied:

- 19" 1U 16-port patch panel, empty, shielded
- 16 Cat. 5e connection modules, RJ45/s incl. EMC covers and dust covers
- 19" mounting kit
- 3 jumpering brackets
- 4 labeling strips
- Cable ties
- Installation instructions

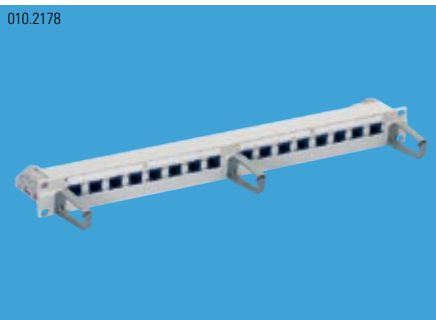
fully populated

1

R305885



010.2178



19" 1U Patch Panel, 16xRJ45/u, Cat. 6,

Supplied:

- 19" 1U 16-port patch panel, empty, unshielded
- 16 Cat. 6 connection modules, RJ45/u incl. dust covers
- 19" mounting kit
- 3 jumpering brackets
- 4 labeling strips
- Cable ties
- Installation instructions

fully populated

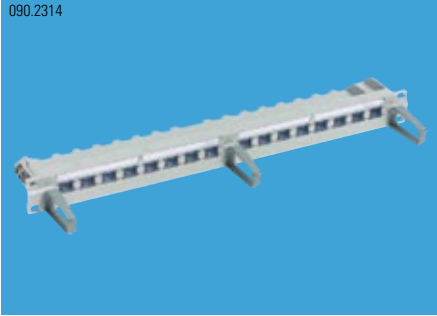
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R305888



Copper 19" Patch Panels
19" 1U Patch Panels, 16xRJ45
Cat. 5e/6 and Real10 Cat. 6

090.2314



19" 1U Patch Panel, 16xRJ45/u, Real10 Cat. 6,

- Supplied:
- 19" 1U 16-port patch panel, empty, unshielded
 - 16 Real10 Cat. 6 connection modules, RJ45/u incl. WARP covers and dust covers
 - 19" mounting kit
 - 3 jumpering brackets
 - 4 labeling strips
 - Cable ties
 - Installation instructions

fully populated

1

R313086



010.2175



19" 1U Patch Panel, 16xRJ45/s, Real10 Cat. 6,

- Supplied:
- 19" 1U 16-port patch panel, empty, shielded
 - 16 Real10 Cat. 6 connection modules, RJ45/s incl. EMC covers and dust covers
 - 19" mounting kit
 - 3 jumpering brackets
 - 4 labeling strips
 - Cable ties
 - Installation instructions

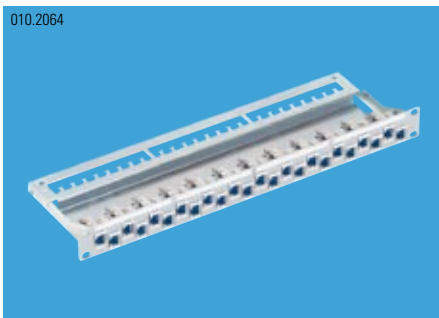
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R305887



Matching Accessories							
<p>010.1885.1</p> <p>020.0975</p> <p>Page CU 193/197</p>	<p>020.0976</p> <p>090.2042</p> <p>Page CU 197/198</p>	<p>010.1880.1</p> <p>010.2134</p> <p>Page CU 200/205</p>	<p>090.2325</p> <p>090.2324</p> <p>Page CU 76/76</p>	<p>010.2183</p> <p>020.0045</p> <p>Page CU 77/79</p>			



Features

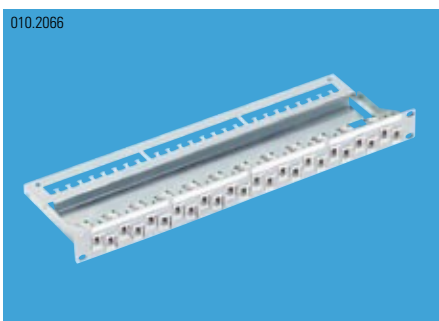
- The high packing density results in a capacity of 24 shielded or unshielded RJ45 connections
- Every module is individually terminated
- The Snap-in adapter is mechanically secured with a plastic wedge
- 8-color coding system with plastic wedges
- Integrated cable tie shelf
- Direct grounding concept via metal patch panel
- Protective conductor terminal optionally available

Ordering Information

Description

PU

Part Number



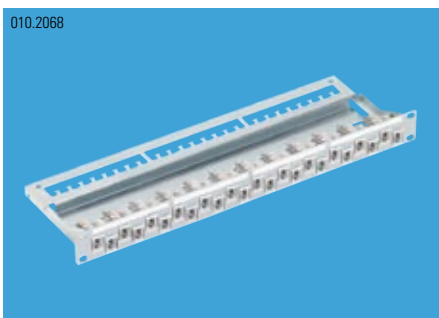
19" 1U Patch Panel, 24xRJ45/u, Cat. 5e,

- Supplied:
- 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf
 - 24 Cat. 5e connection modules, RJ45/u incl. dust covers
 - 19" mounting kit
 - 4 labeling strips
 - Cable ties
 - Installation instructions

fully populated

1

R305118



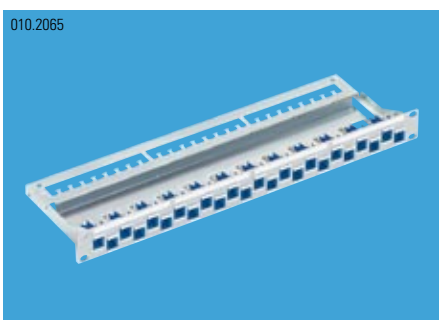
19" 1U Patch Panel, 24xRJ45/s, Cat. 5e,

- Supplied:
- 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf
 - 24 Cat. 5e connection modules, RJ45/s incl. EMC covers and dust cover
 - 19" mounting kit
 - 4 labeling strips
 - Cable ties
 - Installation instructions

fully populated

1

R305121



19" 1U Patch Panel, 24xRJ45/u, Cat. 6,

- Supplied:
- 19" 1U 24-port patch panel, empty, integrated cable tie shelf
 - 24 Cat. 6 connection modules, RJ45/u incl. dust covers
 - 19" mounting kit
 - 4 labeling strips
 - Cable ties
 - Installation instructions

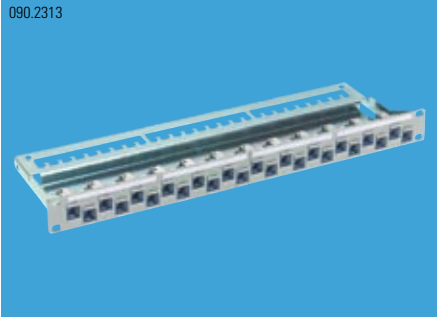
fully populated

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R305117



Copper 19" Patch Panels
19" 1U Patch Panels, 24xRJ45
Cat. 5e/6 and Real10 Cat. 6



19" 1U Patch Panel, 24xRJ45/u, Real10 Cat. 6,

- Supplied:
- 19" 1U 24-port patch panel, empty, integrated cable tie shelf
 - 24 Real10 Cat. 6 connection modules, RJ45/u incl. WARP covers and dust covers
 - 19" mounting kit
 - 4 labeling strips
 - Cable ties
 - Installation instructions

fully populated

1

R313087



19" 1U Patch Panel, 24xRJ45/s, Real10 Cat. 6,

- Supplied:
- 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf
 - 24 Real10 Cat. 6 connection modules, RJ45/s incl. EMC covers and dust covers
 - 19" mounting kit
 - 4 labeling strips
 - Cable ties
 - Installation instructions

fully populated

1

R305120



Matching Accessories							
<p>010.2949 010.1713 090.2324 020.0045</p> <p>Page CU 79/193 Page CU 76/76 Page CU 77/79</p>	<p>090.2325 010.2183</p> <p>Page CU 76/76 Page CU 77/79</p>	<p>010.1673</p> <p>Page CU 78</p>					

010.2057



Features

- Thanks to their modular design the panels can be fitted with up to fifteen 4x1-port connection module holders or blind elements (max. 60x RJ45/u, RJ45/s, SC-RJ or E2000™Compact ports)
- Very installation and service friendly thanks to the snap-and-go fastening system
- Shielded version includes complete integrated grounding system
- Suitable for the Data Safe Lock coding system
- Coax can be integrated means of adapter units
- Exchangeable labeling strips
- Cable tie shelf is a standard component

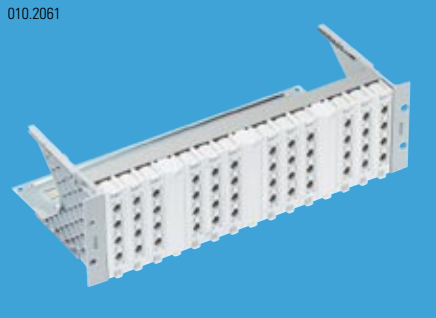
Ordering Information

Description

PU

Part Number

010.2061



19" 3U Global Patch Panel, 48xRJ45/u, Cat. 5e,

Supplied:

- 19" 3U Global patch panel/u incl. cable tie shelf
- 12 connection module holders Global/u
- 3 Global blind covers
- 48 Cat. 5e connection modules, RJ45/u incl. dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

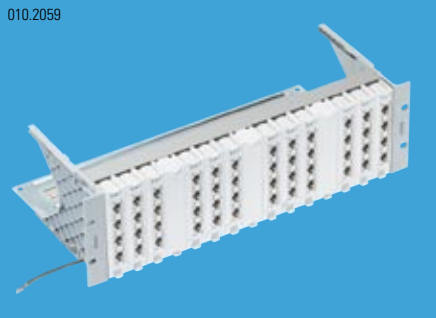
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R35405



010.2059



19" 3U Global Patch Panel, 48xRJ45/s, Cat. 5e,

Supplied:

- 19" 3U Global patch panel/s incl. cable tie shelf
- 12 connection module holders Global/s
- 3 Global blind covers
- Grounding system
- 48 Cat. 5e connection modules, RJ45/s incl. EMC covers and dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

partly populated

1

R35404



010.2057



19" 3U Global Patch Panel, 48xRJ45/u, Cat. 6,

Supplied:

- 19" 3U Global patch panel/u incl. cable tie shelf
- 12 connection module holders Global/u
- 3 Global blind covers
- 48 Cat. 6 connection modules, RJ45/u incl. dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

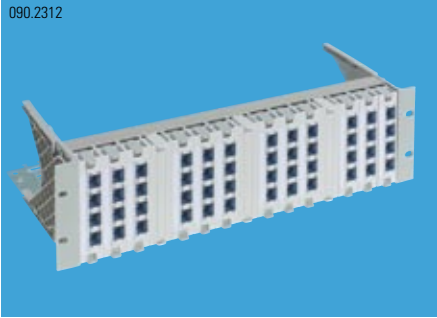
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R302361



Copper 19" Patch Panels
19" 3U Global Patch Panels, 48xRJ45
Cat. 5e/6 and Real10 Cat. 6



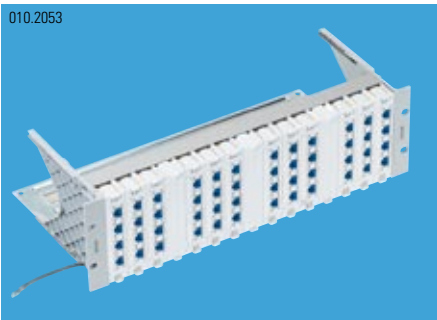
19" 3U Global Patch Panel, 48xRJ45/u, Real10 Cat. 6.

- Supplied:
- 19" 3U Global patch panel/u incl. cable tie shelf
 - 12 connection module holders Global/u
 - 3 Global blind covers
 - 48 Real10 Cat. 6 connection modules, RJ45/u incl. WARP covers and dust covers
 - Labeling strips
 - 19" mounting kit
 - Cable ties
 - Installation instructions

partly populated

1

R313088



19" 3U Global Patch Panel, 48xRJ45/s, Real10 Cat. 6.

- Supplied:
- 19" 3U Global patch panel/s incl. cable tie shelf
 - 12 connection module holders Global/s
 - 3 Global blind covers
 - Grounding system
 - 48 Real10 Cat. 6 connection modules, RJ45/s incl. EMC covers and dust covers
 - Labeling strips
 - 19" mounting kit
 - Cable ties
 - Installation instructions

partly populated

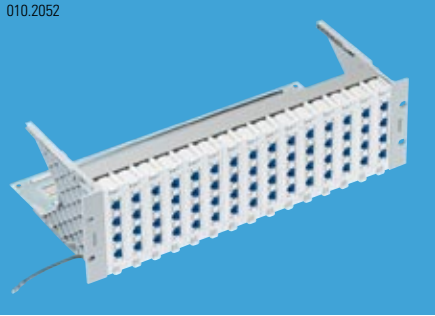
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R302360



Matching Accessories							
<p>010.1885.1</p> <p>020.0975</p> <p>Page CU 193/197</p>	<p>020.0976</p> <p>090.2042</p> <p>Page CU 197/198</p>	<p>010.1880.1</p> <p>010.2134</p> <p>Page CU 200/205</p>	<p>090.2325</p> <p>090.2324</p> <p>Page CU 76/76</p>	<p>010.2183</p> <p>020.0045</p> <p>Page CU 77/79</p>			

010.2052



Features

- Thanks to their modular design the panels can be fitted with up to fifteen 4x1-port connection module holders or blind elements (max. 60x RJ45/u, RJ45/s, SC-RJ or E2000™Compact ports)
- Very installation and service friendly thanks to the snap-and-go fastening system
- Shielded version includes complete integrated grounding system
- Suitable for the Data Safe Lock coding system
- Exchangeable labeling strips
- Cable tie shelf is a standard component

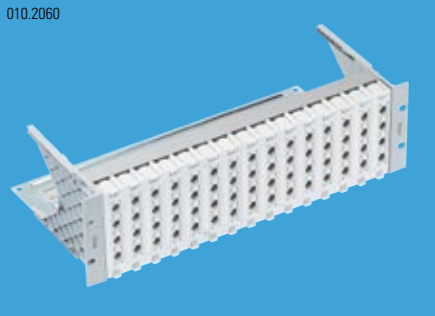
Ordering Information

Description

PU

Part Number

010.2060



19" 3U Global Patch Panel, 60xRJ45/u, Cat. 5e,

Supplied:

- 19" 3U Global patch panel/u incl. cable tie shelf
- 15 connection module holders Global/u
- 60 Cat. 5e connection modules, RJ45/u incl. dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

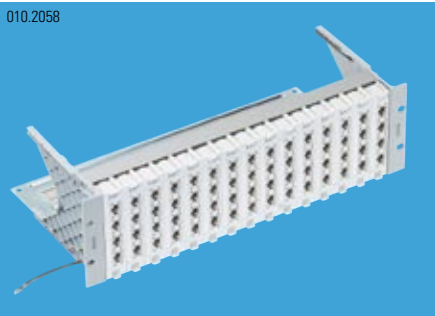
fully populated

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R35407



010.2058



19" 3U Global Patch Panel, 60xRJ45/s, Cat. 5e,

Supplied:

- 19" 3U Global patch panel/s incl. cable tie shelf
- 15 connection module holders Global/s
- Grounding system
- 60 Cat. 5e connection modules, RJ45/s incl. EMC covers and dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

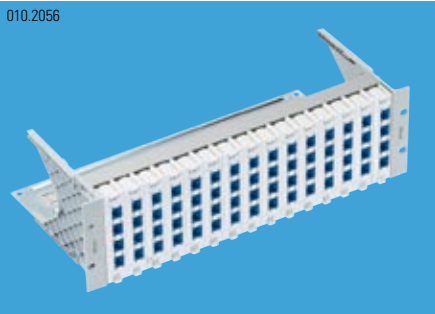
fully populated

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R35406



010.2056



19" 3U Global Patch Panel, 60xRJ45/u, Cat. 6,

Supplied:

- 19" 3U Global patch panel/u incl. cable tie shelf
- 15 connection module holders Global/u
- 60 Cat. 6 connection modules, RJ45/u incl. dust covers
- Labeling strips
- 19" mounting kit
- Cable ties
- Installation instructions

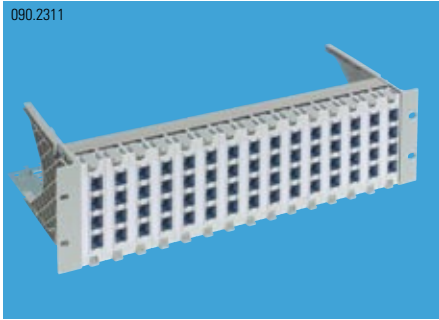
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R302363



Copper 19" Patch Panels
19" 3U Global Patch Panels, 60xRJ45
Cat. 5e/6 and Real10 Cat. 6



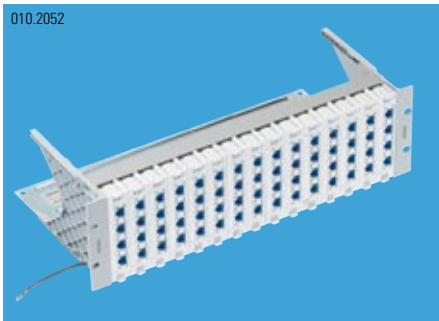
19" 3U Global Patch Panel, 60xRJ45/u, Real10 Cat. 6.

- Supplied:
- 19" 3U Global patch panel/u incl. cable tie shelf
 - 15 connection module holders Global/u
 - 60 Real10 Cat. 6 connection modules, RJ45/u, incl. WARP covers and dust covers
 - Labeling strips
 - 19" mounting kit
 - Cable ties
 - Installation instructions

fully populated

1

R313089



19" 3U Global Patch Panel, 60xRJ45/s, Real10 Cat. 6,

- Supplied:
- 19" 3U Global patch panel/s incl. cable tie shelf
 - 15 connection module holders Global/s
 - Grounding system
 - 60 Real10 Cat. 6 connection modules, RJ45/s incl. EMC covers and dust covers
 - Labeling strips
 - 19" mounting kit
 - Cable ties
 - Installation instructions

fully populated

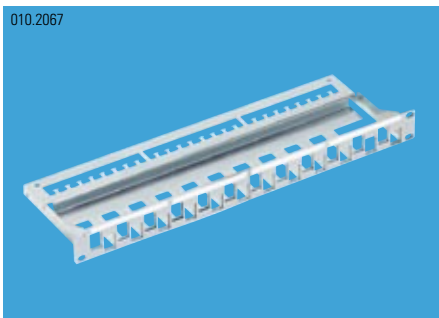
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R302362



Matching Accessories							
<p>010.1885.1 020.0975</p> <p>Page CU 193/197</p>	<p>020.0976 090.2042</p> <p>Page CU 197/198</p>	<p>010.1880.1 010.2134</p> <p>Page CU 200/205</p>	<p>090.2325 090.2324</p> <p>Page CU 76/76</p>	<p>010.2183 020.0045</p> <p>Page CU 77/79</p>			

010.2067



Features

- Modular design, capacity of up to 60 shielded or unshielded RJ45 ports
- Integrated cable tie shelf
- Shielded version includes complete integrated grounding system
- Labeling window plus exchangeable labeling strips
- Perforated A4 labeling sheets available (suitable for laser printer)

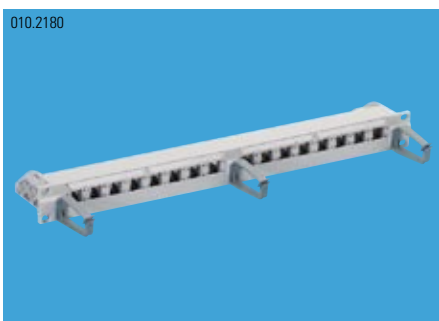
Ordering Information

Description

PU

Part Number

010.2180



19" 1U Patch Panel, 16xRJ45/u,

- With a capacity for 16 unshielded RJ45 connection modules.

Supplied:

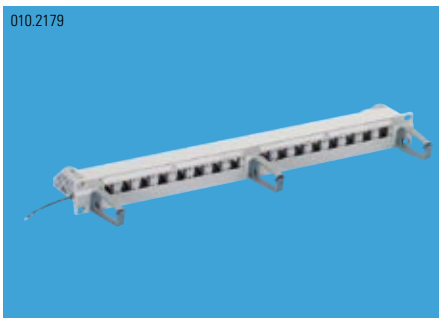
- 19" 1U 16-port patch panel, empty, unshielded
- 19" mounting kit
- 3 jumpering brackets
- 4 labeling strips
- Installation instructions

empty

1

R305890

010.2179



19" 1U Patch Panel, 16xRJ45/s,

- With a capacity for 16 shielded RJ45 connection modules.

Supplied:

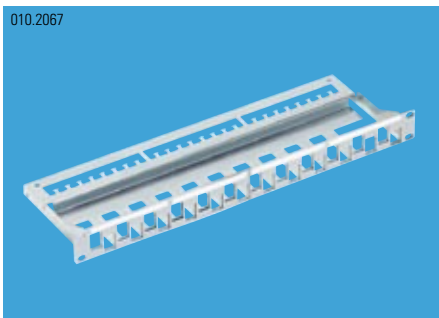
- 19" 1U 16-port patch panel, empty, shielded
- 19" mounting kit
- 3 jumpering brackets
- 4 labeling strips
- Installation instructions

empty

1

R305889

010.2067



19" 1U Patch Panel, 24xRJ45,

- With a capacity for 24 connection modules, snap-in RJ45/s or RJ45/u.

GOF adapters snap-in:

- SC-RJ, SM (R312775)
- E-2000™Compact, SM (R313009, R313011)
- E-2000™Compact, MM (R313001, R313002, R313010)

Supplied:

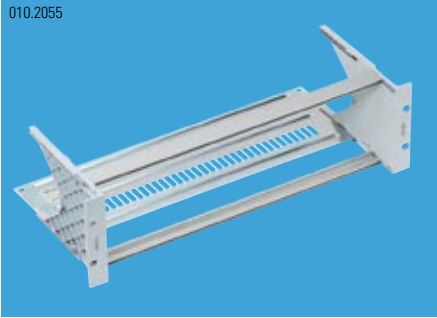
- 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf
- 19" mounting kit
- 4 labeling strips
- Installation instructions

empty

1

R305119

Copper 19" Patch Panels
19" Patch Panels, empty



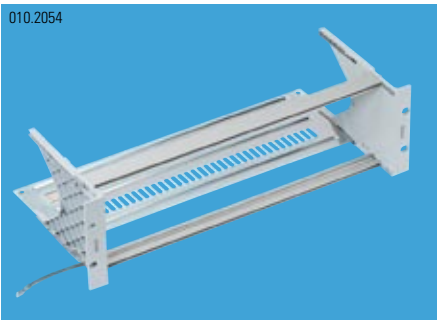
19" 3U Global Patch Panel, 60xRJ45/u,

- Holds up to fifteen Global/u connection module holders, Global blind covers or six Global adapter units.
- Max. capacity of 60 RJ45/u connection modules.
- Supplied:
 - 19" 3U Global patch panel/u incl. cable tie shelf
 - 19" mounting kit
 - Installation instructions

empty

1

R35409



19" 3U Global Patch Panel, 60xRJ45/s,

- Holds up to fifteen Global/s connection module holders, Global blind covers or six Global adapter units.
- Max. capacity of 60 RJ45/s connection modules.
- Supplied:
 - 19" 3U Global patch panel/s incl. cable tie shelf
 - Grounding system
 - 19" mounting kit
 - Installation instructions

empty

1

R35408

Matching Modules and Accessories							
<p>010.2858</p>	<p>090.2213</p>	<p>010.2859</p>	<p>010.2022.2</p>	<p>090.2321</p>	<p>010.1885.1</p>	<p>020.0976</p>	<p>010.1880.1</p>
<p>010.2857</p>	<p>010.2860</p>	<p>010.2023.1</p>	<p>010.2016.1</p>	<p>010.2017.1</p>	<p>020.0975</p>	<p>090.2042</p>	<p>010.2134</p>
Page CU 28/33	Page CU 33/28	Page CU 34/30	Page CU 30/36	Page CU 35/35	Page CU 193/197	Page CU 197/198	Page CU 200/205

010.1183



Ordering Information

Description

PU

Part Number

010.1181



Connection Module Holder, Global/u,

– To be mounted into 19" 3U Global patch panels, unshielded.

Holding capacity:

- 4 connection modules RJ45/u or
- 4 SC-RJ or E-2000™ Compact adapters

Supplied:

- Connection module holder
- Labeling strip
- Installation instructions

1 GU

1

R35403

010.1183



Connection Module Holder, Global/s,

– To be mounted into 19" 3U Global patch panels, shielded.

Holding capacity:

- 4 connection modules RJ45/s

Supplied:

- Connection module holder
- Integrated grounding plate
- Labeling strip
- Installation instructions

1 GU

1

R35402

010.1180



Blind Cover, Global,

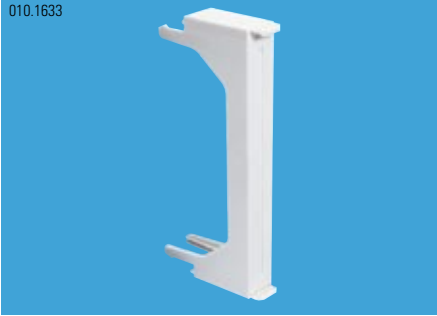
– For use with 19" 3U Global patch panels, shielded and unshielded.

1 GU

1

R35401

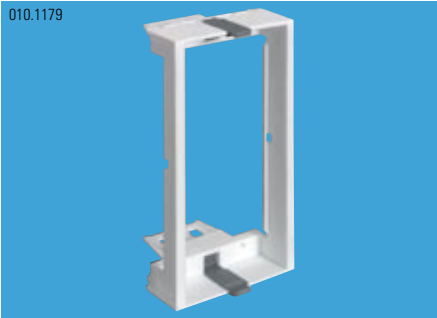
**Copper 19" Patch Panels
Accessories
19" 3U Global Patch Panels**



Blind Cover, Global,

- For use with 19" 3U Global patch panels, shielded and unshielded.
- To cover half an element when Adapter units (installation size = 2 1/2 width units of a connection module holder) or an uneven number of Adapter units in the Global patch panel are used.

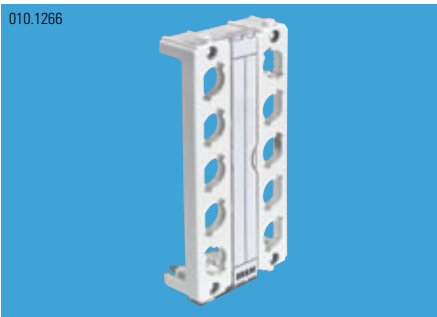
0.5 GU 1 R302149



Adapter Unit, Global,

- To be mounted into 19" 3U Global patch panels. Accommodates:
- BNC Coax Socket Holder (R300283)

2.5 GU 1 R35400



Coax Socket Holder, Global,

- For the mounting of 10 BNC sockets.
 - Tool-free R&M click-on fastening.
 - Suitable for Global Adapter unit.
- Supplied:
- BNC socket holder
 - Fastening screws
 - Labeling strips

Coax, 2x5 1 R300283

i Does not include sockets and plugs.



BNC Installation Socket

- Full-crimp cable entry.
- For coaxial cables:
- RG 59 B/U
 - RG 62 A/U
 - RG 71 B/U

10 R23002

i Tool-free R&M click-on fastening.

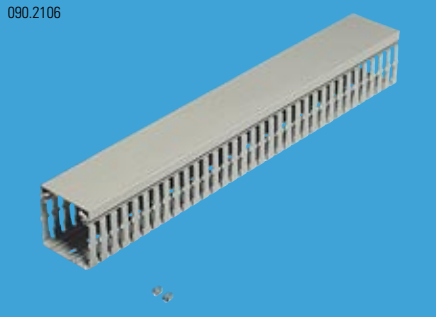


Voice Adapter, Global,

- To be mounted into 19" 3U Global patch panels.
 - Max. equipped with 5 voice Adapters (150 ports). Holding capacity for 3 connection modules 10xRJ45.
- Supplied:
- Global Voice Adapter
 - 4 labeling strips

3x10 ports, 3 GU 1 R310400

090.2106



Cable Duct, Global,

- Recommended for multipair telephone cables.
- Mounted onto the cable tie shelf of the Global patch panel, the cable duct ensures optimum cable management.

Supplied:

- Cable duct, length 420 mm
- Mounting kit

420 mm

1

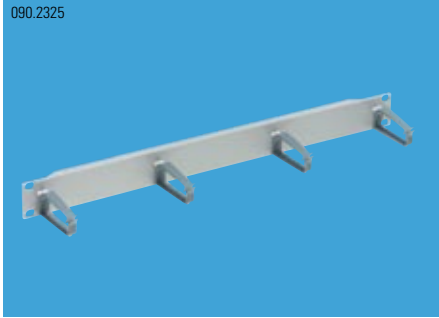
R310401

Matching Modules and Accessories

<p>010.2858</p> <p>010.2857</p>	<p>090.2213</p> <p>010.2860</p>	<p>010.2859</p> <p>020.071</p>	<p>010.1885.1</p> <p>020.0975</p>	<p>020.0976</p> <p>090.2042</p>	<p>010.1880.1</p> <p>010.2134</p>	<p>020.0045</p> <p>020.0202</p>	<p>020.0721</p>
Page CU 28/33	Page CU 33/28	Page CU 34/89	Page CU 193/197	Page CU 197/198	Page CU 200/205	Page CU 79/74	Page CU 96

Copper 19" Patch Panels
Accessories
19" Patch Panels

090.2325



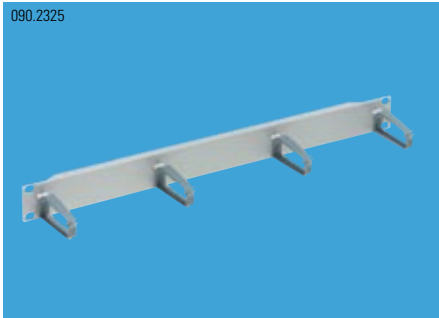
Ordering Information

Description

PU

Part Number

090.2325



19" 1U Jumper Ring Panel, Plastic

- Plastic plate with four mounted jumpering brackets.
- For a neat, horizontal routing of patch cords between patching fields.
- The reinforced plastic plate and snap-in jumpering brackets provide additional stability and a quick mounting.

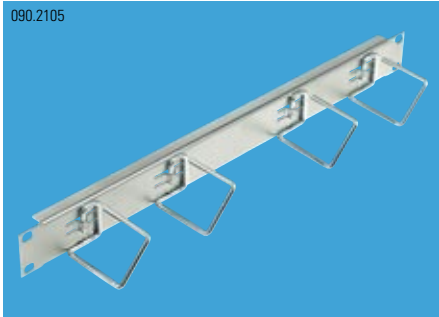
Supplied:

- 1U jumper ring panel
- 4 jumpering brackets, gray
- 19" mounting kit

1

R306179

090.2105



19" 1U Jumper Steel Ring Panel

- For a neat, horizontal routing of patch cords between patching fields.
- Fast and tool-free assembly of jumpering brackets.

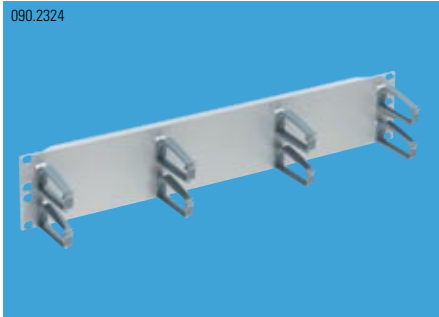
Supplied:

- 1U metal jumper panel
- 4 jumpering brackets, metal
- 19" mounting kit

1

R310765

090.2324



19" 2U Jumper Ring Panel, Plastic

- Plastic plate with eight mounted jumpering brackets.
- For a neat, horizontal routing of patch cords between patching fields.
- The reinforced plastic plate and snap-in jumpering brackets provide additional stability and a quick mounting.

Supplied:

- 2U jumper ring panel
- 8 jumpering brackets, gray
- 19" mounting kit

1

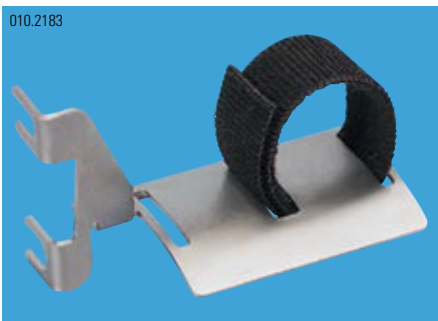
R306180



19" 2U Jumper Steel Ring Panel

- For a neat, horizontal routing of patch cords between patching fields.
 - Fast and tool-free assembly of jumpering brackets.
- Supplied:
- 2U metal jumper ring panel
 - 8 jumpering brackets, metal
 - 19" mounting kit

1 R310774



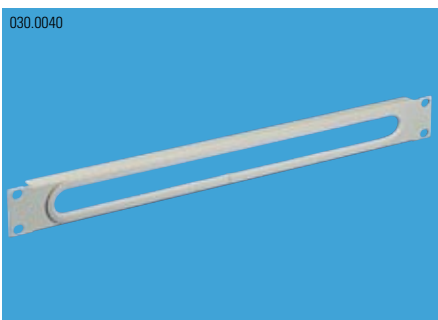
19" Lateral Radius Guard,

- The radius guard guarantees compliance with admissible bending radii of copper and FO cables.
 - The guard is mounted to the front of 19" racks.
 - Color: Medium gray (NCS 2503-B)
- Supplied:
- Lateral radius guard, left
 - Lateral radius guard, right
 - Velcro fastening 19 x 400 mm

left and right

1 R306181

i 19" mounting holes distance 1U



19" 1U Cable Through Guide Panel

- Material: sheet steel
- Supplied:
- 19" 1U cable through guide panel

1 R25055

i Does not include 19" mounting kit



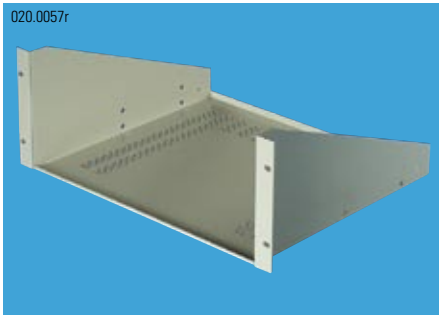
19" Blind Plate,

- To cover unused spaces.
 - Material: sheet steel
- Supplied:
- 19" blind plate

1U	1	R24031-01
2U	1	R24031-02
3U	1	R24031-03
4U	1	R24031-04

i Does not include 19" mounting kit

Copper 19" Patch Panels
Accessories
19" Patch Panels



19" Fixed Shelf

- For equipment not corresponding to 19" standard.
- The bottom plate features air circulation vents.
- Depth: 400 mm
- Color: gray (RAL 7032)

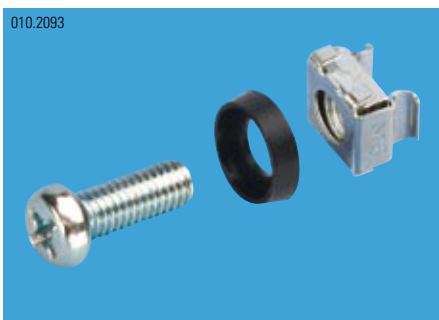
Supplied:

- 19" fixed shelf
- 19" mounting kit

3U

1

R24069-03



19" Mounting Kit

- For the mounting of all types of 19" components.

Supplied:

- 4 screws M6 x 16 mm
- 4 plastic collars
- 4 cage nuts M6

1

R305989



Protective Conductor Terminal

- For a simple and efficient ground connection
- Accommodates one stranded cable of max. cross section of 6 mm²

Suitable for:

- 1U 24-port metal patch panel
- 50xRJ45 voice panel
- Global system

Supplied:

- Grounding terminal
- Washer
- Nut

6 mm²

1

R302150



Jumpering Brackets

- For a neat vertical routing of patch cords between patching fields.

Supplied:

- Jumpering brackets
- Mounting kit

1

R930114



Universal Blind Cover

- To cover one unused connection module port.
- Snaps into Smartholes.
- Color: light gray (NCS 1005-R80B)

light gray

100

R305766



Snap-in Blind Cover

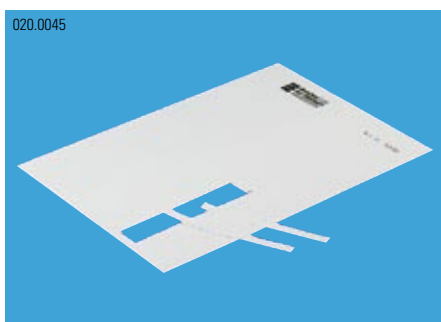
- For sheet metal cutouts of 15 x 19.5 mm in diameter and sheet thickness of 1.5 and 3 mm.
- Color: light gray (NCS 1005-R80B)

light gray

10

R308708

i Also suitable for 19" 1U patch panels, 24xRJ45.



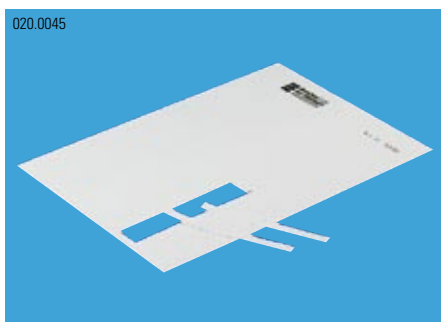
Labeling Sheet, 16-Port Patch Panel

- Suitable for laser printers.
- Material: paper, white, perforated
- Supplied:
- A4 sheet with 48 strips (neutral).

1

R306039

i Get a free MS Word template at our website (www.rdm.com) for fast and professional labeling.



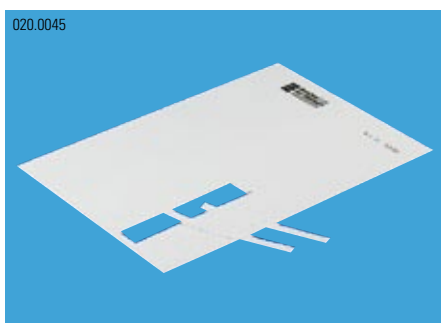
Labeling Sheet, 24-Port Patch Panel

- Suitable for laser printers.
- Material: paper, white, perforated
- Supplied:
- A4 sheet with 54 strips (neutral).

1

R305090

i Get a free MS Word template at our website (www.rdm.com) for fast and professional labeling.



Labeling Sheet for Fiberliner and Global Module Holder

- Dimensions: A4
- Material: paper, white, perforated
- Supplied:
- Fiberliner and Global module holder labeling sheet (50 strips without logo)

1

R30871

i For the labeling of front plates and 19" insertions.

010.2175

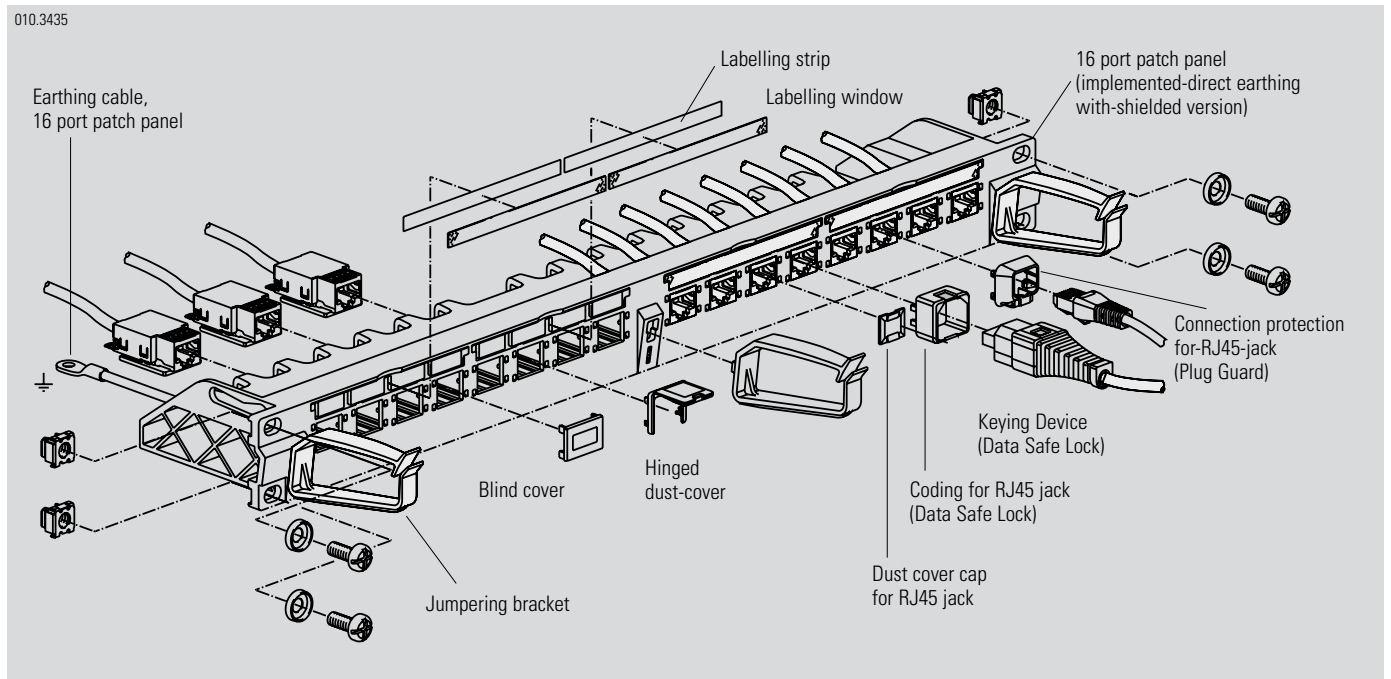


19" 1U Patch Panel, 16x RJ45

- Dimensions: 19", 1U
- Material: patch panel: polycarbonate, fiber-glass reinforced
- Color: patch panel: medium gray (NCS 2502-B)
- Halogen content: zero (acc. to DIN/VDE 0472/815)
- Fire classification: patch panel: UL94 V-0

19" 1U Patch Panel, 16x RJ45

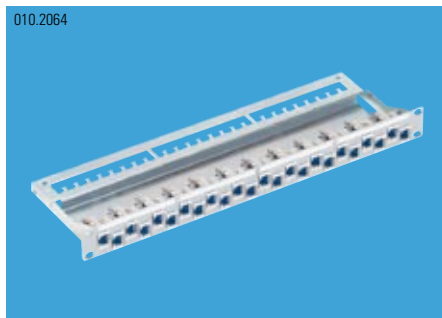
010.3435



Copper 19" Patch Panels

Techn. Data 19" 1U Patch Panels

010.2064



19" 1U Patch Panel, 24x RJ45

Dimensions:

- 19", 1U

Material:

- Patch Panel: sheet steel, zincd and blue chromated
- Grounding terminal: tin-coated, copper plate
- Adapter frame: polycarbonate
- Front screen: ABS
- Plastic wedge: polypropylene

Color:

- Front screen: medium gray (NCS 2502-B)
- Adapter frame: gray (RAL 7035)
- Plastic wedge: gray (RAL 7035)

Halogen content (acc. to DIN/VDE 0472/815):

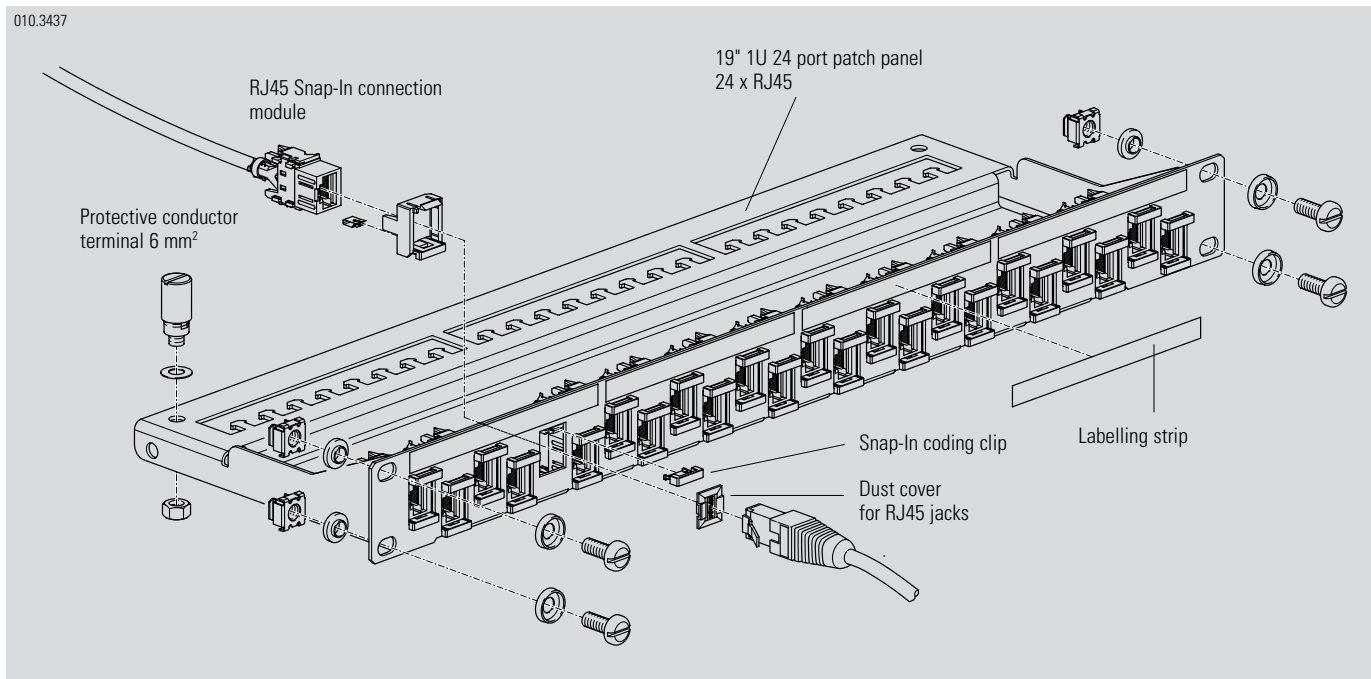
- Zero

Fire classification:

- Adapter frame: UL94 V-0
- Front screen: UL94 HB
- Plastic wedge: UL94 HB

19" 1U Patch Panel, 24x RJ45

010.3437



090.2325



19" 1U Jumper Ring Panel, plastic

- Material: polycarbonate, fiber-glass reinforced
- Color: medium gray (NCS 2503-B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

090.2324



19" 2U Jumper Ring Panel, plastic

- Material: polycarbonate, fiber-glass reinforced
- Color: medium gray (NCS 2503-B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

Copper 19" Patch Panels

Techn. Data 19" 3U Patch Panels



19" 3U Global Patch Panel

Dimensions:

- 19", 3U, 84HP
- 1 GU (Global Unit) equals the width of a connection module holder
- Maximum 15 GU/patch panel

Material:

- Patch panel profiles: aluminum, neutrally anodized
- Patch panel side walls: polyamide, fiber-glass reinforced
- Connection module holder: polycarbonate, fiber-glass reinforced
- Slider: polycarbonate

Color:

- Side walls: medium gray (NCS 2502-B)
- Connection module holder: light gray (NCS 1005-R80B)
- Slider: medium gray (NCS 2502-B)

Halogen content (acc. to DIN/VDE 0472/815):

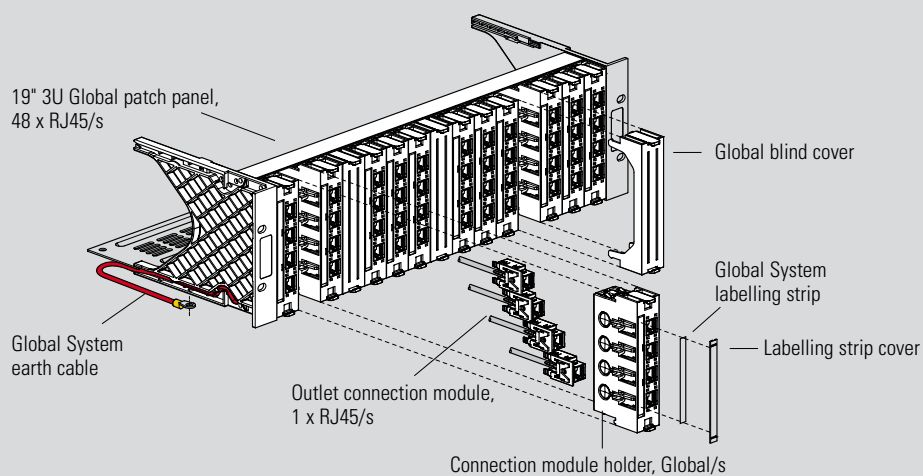
- Zero

Fire classification:

- Side walls: UL94 HB
- Connection module holder: UL94 V-0

19" 3U Global Patch Panel

010.3439



010.1183



Connection Module Holder, Global/s and Global/u

- Dimensions: 3U, 1 GU
- Material: polycarbonate, fiber-glass reinforced
- Color: light gray (NCS 1005-R80B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

010.1180



Blind Cover, Global

- Dimensions: 3U, 1 GU
- Material: polycarbonate
- Color: light gray (NCS 1005-R80B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

010.1633



0.5 Blind Cover, Global

- Dimensions: 3U, 0.5 GU
- Material: polycarbonate
- Color: light gray (NCS 1005-R80B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

010.1179



Adapter Unit, Global

- Dimensions: 3U, 2.5 GU
- Material: polycarbonate, fiber-glass reinforced
- Color: light gray (NCS 1005-R80B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

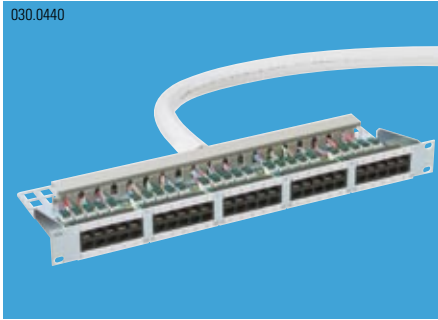
010.1266



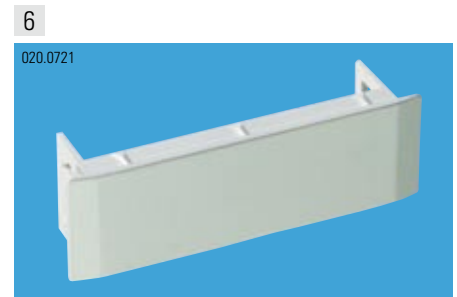
Socket Holder, Global, Coax 2x5

- Material: polycarbonate
- Color: light gray (NCS 1005-R80B)
- Halogen content (acc. to DIN/VDE 0472/815): zero
- Fire classification: UL94 V-0

Voice Integration



Voice panels are neatly structured compact telephone connection interfaces designed to ensure flexible and efficient cabling of all telephone applications. Their 19" design makes for straightforward integration into generic cabling systems. With a capacity for up to 100 single-pair communication services they cover analog as well as digital systems and thanks to their modular design and individual labeling possibilities they can be smoothly integrated into generic cabling systems at any time.

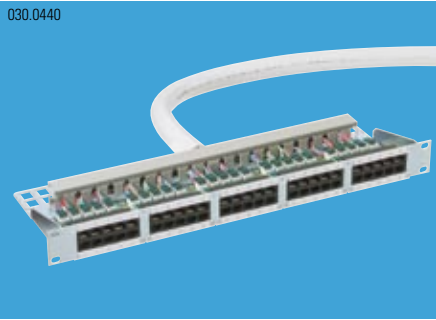


Products

Products	Page
1 Voice Integration	CU 88
2 19" RJ45 Voice Panel	CU 89
3 Voice Integration Introduction PBX	CU 91
4 PBX Connection Modules, Ascotel	CU 92
5 PBX Connection Modules, Nortel Meridian	CU 94

Products

Products	Page
6 19" RJ45 Voice Panel, Accessories	CU 96
7 VS Modular, 19" Insertions	CU 97
8 ISDN Connection Modules RJ45	CU 98
9 ISDN Mini-S-Bus	CU 100

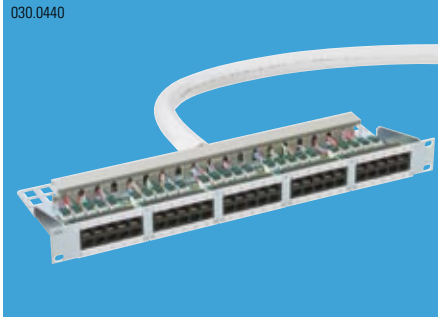


Voice panels are neatly structured compact telephone connection interfaces designed to ensure flexible and efficient cabling of all telephone applications. Their 19" design makes for straightforward integration into generic cabling systems. With a capacity for up to 100 single-pair communication services they cover analog as well as digital systems and thanks to their modular design and individual labeling possibilities they can be smoothly integrated into generic cabling systems at any time.



Products	Page
1 Telephony Adapter	CU 101
2 Telephony Distributor	CU 102
3 Techn. Data 19" RJ45 Voice Panel	CU 103
4 Techn. Data ISDN	CU 104
5 Techn. Data Telephony Adapter	CU 106

Voice Integration



Highest packing density

Safe space and time!

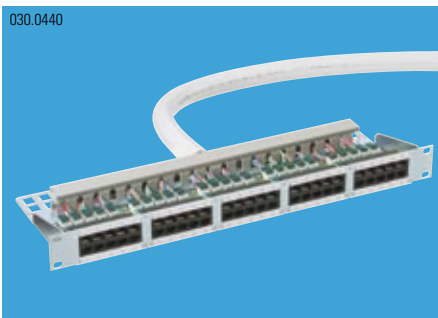
010.2936

get **more**

Intelligent voice integration

- Highest packing density
- Modular design
- Efficient and tool-free termination technology
- Comprehensive product range
- Professional labeling system
- PBX plug and play solutions

@ **R&M**



Features

- 19" 1U voice panel with up to 50 RJ45/u ports
- Cat. 3 compliant in accordance with ISO/IEC 11801, EN 50173 and EIA/TIA 568A.
- Tool-free EASY Lock termination technology (IDC) for cables with wire Ø 0.25 mm to 0.65 mm (AWG 30-22). Stranded wires = AWG 26/7 to 24/7. Admissible insulation Ø 0.7 mm to 1.6 mm
- Label holder with exchangeable labeling strips
- Cable guide for optimum pair routing
- Prepared for grounding connection

Ordering Information

Description

PU

Part Number

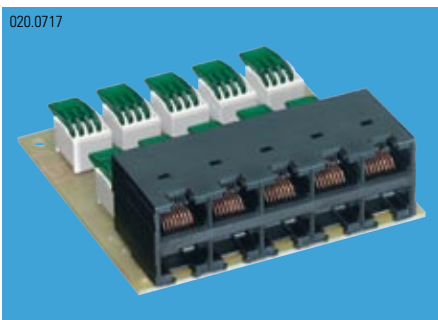


19" 1U Patch Panel, 50xRJ45, empty

- With a holding capacity of five connection modules 10 x RJ45/u.
- Supplied:
 - 19" 1U (84HP) patch panel, powder-coated, gray
 - 19" mounting kit
 - 10 labeling strips
 - Instruction manual

1

R35115



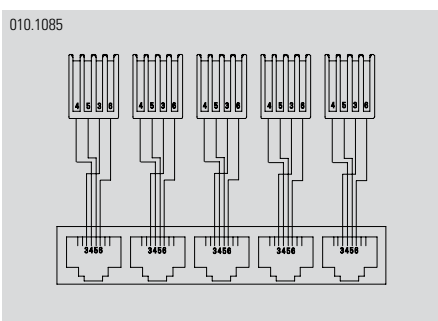
Connection Module, 10x RJ45/u (4-5, 3-6)

- Connection module with 10 unshielded RJ45 ports.
- Tool-free Easy Lock termination technique.

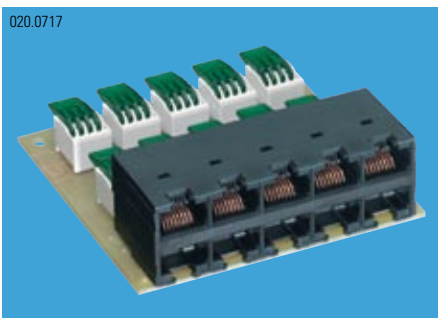
1

R35116

i See wiring chart 2.



Wiring Chart 2



Connection Module, 10x RJ45/u (4-5, 7-8)

- Category 3 connection module with 10 unshielded RJ45 ports.
- Tool-free Easy Lock termination technique.

Connection Module, 10x RJ45/u (4-5, 7-8)

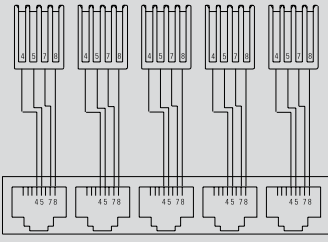
1

R301388

i See wiring chart 3.

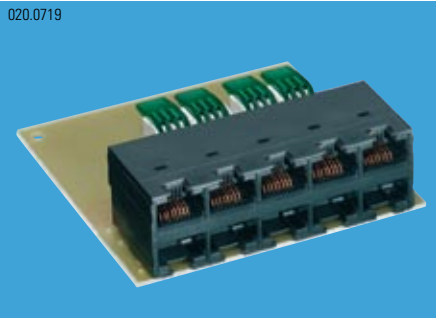
Voice Integration
19" RJ45 Voice Panel

010.1604



Wiring Chart 3

020.0719



Concentrator Module, IN 8x RJ45/u, OUT 2x RJ45/u

- With the capacity of concentrating four 2-wire services on one RJ45 port.
- In combined use with the matching telephony adapters (R35121) all eight conductors can be fully used in generic cabling systems.

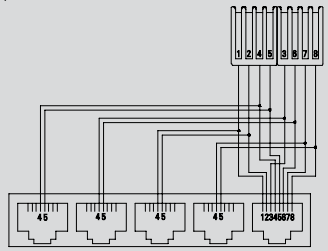
1

R35122



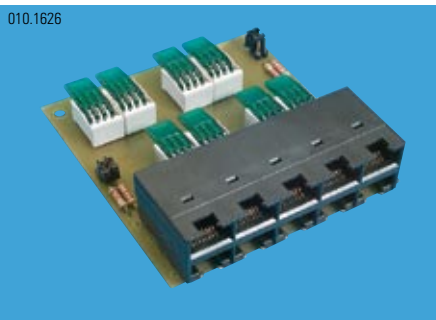
See wiring chart 1.

010.1084



Wiring Chart 1

010.1626



Connection Module, 10x RJ45/u ISDN/Bus

- With these modules up to 2 ISDN basic access connections can be established and up to 10 users can be supplied with ISDN services at their workplaces.
- Special ISDN outlets or termination adapters are no longer needed.
- The required S-Bus-connection (2 x 100 ohm) is already integrated and can be activated with jumpers.

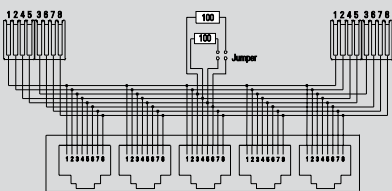
1

R302182



See wiring chart 4.

010.1605.1



Wiring Chart 4

Innovative cabling concept for LAN-based PBXs

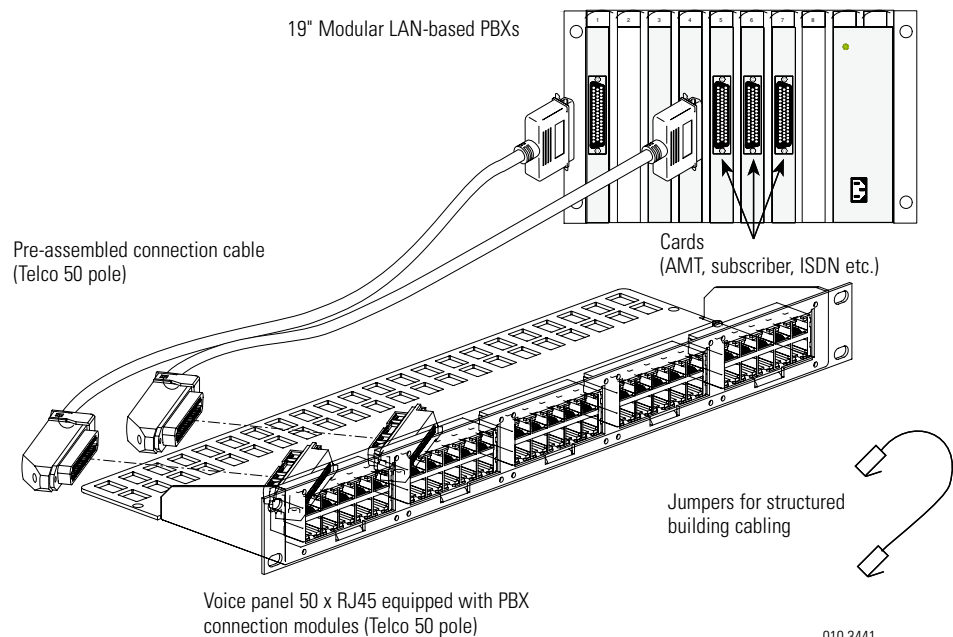
Increasingly, PBX equipment is also offered in 19" technology, with interfaces to integrate LANs. These interfaces establish intelligent connections between PCs and telephones in a technology that is also known as CTI (Computer Telephony Integration). CTI combines the power of a PC with that of the telephone system, allowing the control of all telephone functions via computer. Telephone numbers are dialled directly from the computer or with incoming calls customer data is automatically brought in from a database. This connection also allows the direct processing of e-mails, voice mails, or faxes, from the PC. A modern PBX with CTI can provide significantly improved and more effective communication.

Optimal integration of the PBX into the structured cabling system

19" technology ensures optimum integration of the PBX into the structured cabling system. To integrate a LAN there usually is a respective LAN switch nearby. Passive tertiary cabling too, is run from the same cabinet. The main board or insertion cards of most PBXs feature respective connection modules, for example Telco 50 pole. R&M now offers the respective counterpart on the cabling side. Based on the successful voice panel, with up to 50 x RJ45 on 1U, the R&M range now also includes connection modules suitable for various PBXs. This allows the fast taking on of a PBX with pre-assembled cables (plug and play), dispensing with any cabling work.

Features

- Fast and simple commissioning of the PBX
- No need for intermediate distributor/main distributor
- No more expensive cabling work
- Optimum integration of the PBX in the structured cabling system
- Cost savings of up to 50% and more when compared to conventional solutions



Voice Integration
PBX Connection Modules, Ascotel
2025/2045/2065

010.1918



Features

- Fast and easy operational start of PBX (private branch exchange)
- Dispenses with intermediate distributors/main distributors
- Dispenses with costly cabling work
- Optimum PBX integration into structured cabling systems
- Up to 50% cost savings compared to conventional solutions

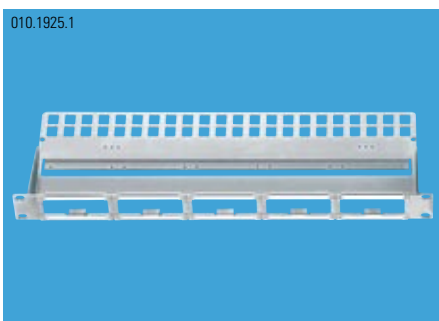
Ordering Information

Description

PU

Part Number

010.1925.1



19" 1U Patch Panel, empty, for PBX

- With a capacity of five connection modules 8/10 x RJ45.
- Suitable for Ascotel and Nortel Meridian connection modules.

Supplied:

- 19" 1U (84HP) patch panel for PBX, powder-coated, gray
- 19" mounting kit
- 10 labeling strips

1

R305123



Excluding wiring duct.

010.1919



Connection Module, 8x RJ45/u (4-5)

- Featuring a Modu plug connection.
- For 2-wire applications.

1

R304742

010.1918



Connection Module, 8x RJ45/u (4-5, 3-6)

- Featuring two Modu plug connections.
- For ISDN basis connections.

1

R304743

010.1918



Connection Module, 8x RJ45/u, (switchable)

- Featuring two Modu plug connections.
- For ISDN connections, S- and T-interfaces.
- Each single RJ45 port can be selected via jumpers.

1 R306103

010.1923

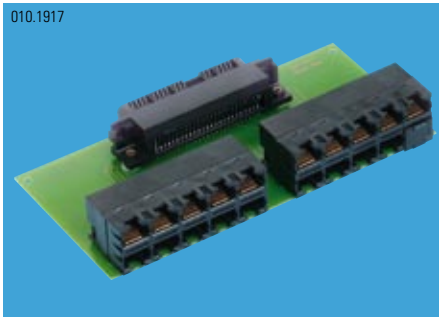


Connection Cable Special, AMP Modu II,

- Featuring two 16-pole connectors.
- Connection 1:1.

2 m	1	R304950
4 m	1	R306105
6 m	1	R306104

**Voice Integration
PBX Connection Modules, Nortel Meridian**



Features

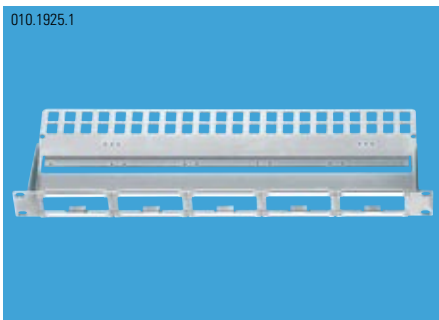
- Fast and easy operational start of PBX (private branch exchange)
- Dispenses with intermediate distributors/main distributors
- Dispenses with costly cabling work
- Optimum PBX integration into structured cabling systems
- Up to 50% cost savings compared to conventional solutions

Ordering Information

Description

PU

Part Number



19" 1U Patch Panel, empty, for PBX


- With a capacity of five connection modules 8/10 x RJ45.
- Suitable for Ascotel and Nortel Meridian connection modules.

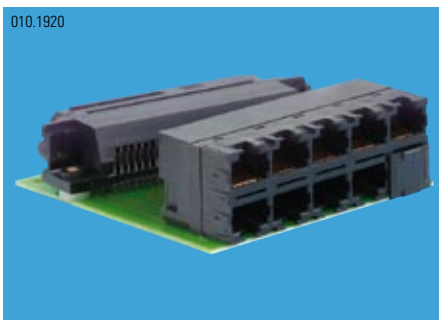
Supplied:

- 19" 1U (84HP) patch panel for PBX, powder-coated, gray
- 19" mounting kit
- 10 labeling strips

1

R305123

 Excluding wiring duct.



Connection Module, 9x RJ45/u (4-5, 3-6)

- MDECT

1

R304670



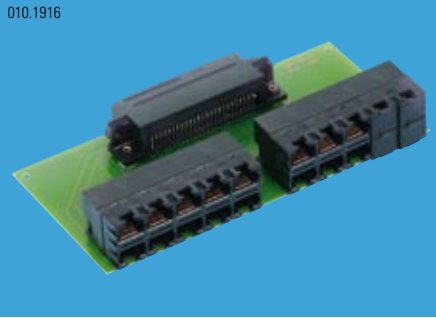
Connection Module, 8x RJ45/u (4-5, 3-6)

- SILC / ISDN BRA
- 4 x T-interfaces / 4 x S-interfaces

1

R304667

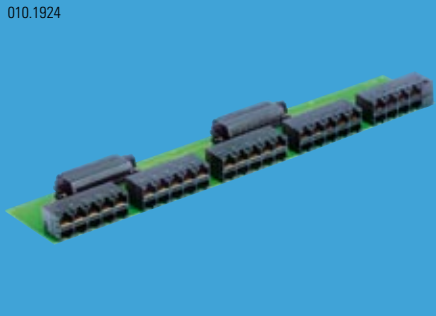
010.1916



Connection Module, 16x RJ45/u (4-5, 3-6)
– XFALC / XDLC / XFEM

1 R304668

010.1924

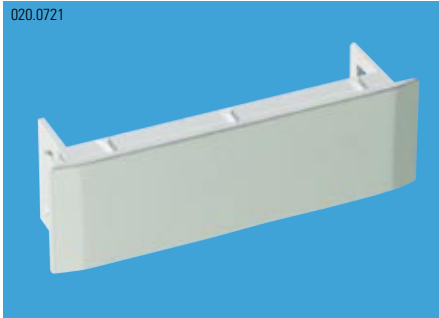


Connection Module, 48x RJ45/u (4-5)
– XDLC

1 R304669

i Connecting cable PBX - RJ45 connection modules can be obtained from the PBX manufacturer.

Voice Integration
19" RJ45 Voice Panel, Accessories

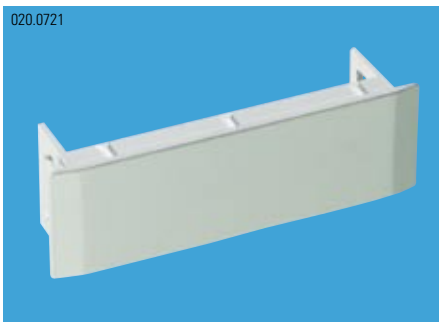


Ordering Information

Description

PU

Part Number

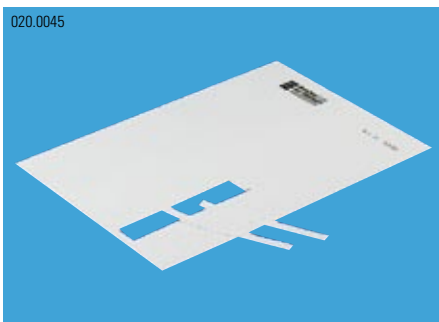


Blind Cover, light gray

– To cover one unused port on the voice panel.

1

R35117



Labeling Sheet, Voice Panel

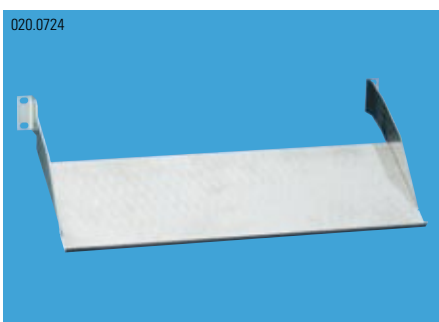
– Suitable for laser printers.
 – Material: paper, white, perforated
 Supplied:
 – A4 sheet with 72 strips (blank)

1

R35119



Get a free MS Word template at our website (www.rdm.com) for fast and professional labeling.



19" 1U Mounting Support, Voice Panel

– For a convenient connecting of the voice panel directly at the 19" distributor.

Supplied:
 – Mounting support, stainless steel
 – 2 M6 fastening screws

1

R35118



Features

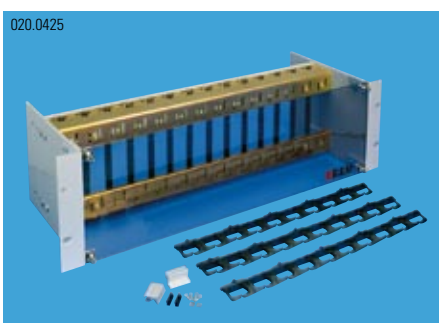
- Designed for connecting secondary cabling in floor distributors
- Cable entry from the rear
- Transparent front panel
- Integral strain relief
- High packing density

Ordering Information

Description

PU

Part Number



19" 3U Rack Insertion, VS Modular,

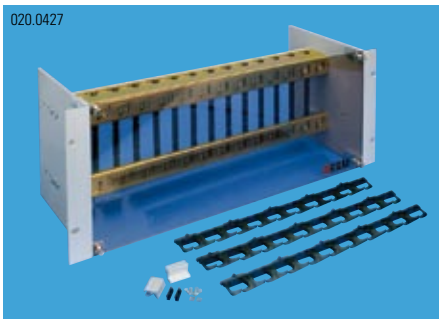
- Mounting rail for 14x 10-pair connection modules.
- Supplied:
 - 19" 3U insertion VS Modular, rack depth 167 mm
 - Transparent cover incl. attachment
 - 3 patching grids
 - 2 front plate handles incl. fastening screws
 - Installation instructions

Type S

1

R24122-3

i Excluding 19" mounting kit.



19" 4U Rack Insertion, VS Modular,

- Mounting rail for 14x 12-pair connection modules.
- Supplied:
 - 19" 4U insertion VS Modular, rack depth 167 mm
 - Transparent cover incl. attachment
 - 3 patching grids
 - 2 front plate handles incl. fastening screws
 - Installation instructions

Type S

1

R24122-4

i Excluding 19" mounting kit.

i For connection modules and accessories see VS Modular catalog.

Voice Integration
ISDN Connection Modules RJ45

090.2437



Features

- Fitted with shielded or unshielded RJ45 ports
- Suitable for installation cables S/FTP, SF/UTP, F/UTP and U/UTP
- Tool-free Easy Lock termination technology (IDC) for data cables of wire Ø 0.25 to 0.65 mm (AWG 30-22)
- Reliable connecting thanks to labeled wiring scheme
- Termination without pairs crossover
- Easy and time-saving shield contacting for shielded cables

Ordering Information

Description

PU

Part Number

090.2436



Connection Module ISDN, 1x RJ45/u

- ISDN connection module with one unshielded 8-pole Bus RJ45 port.

Supplied:

- Print with 1xRJ45 connection module and 4 Easy Lock terminal blocks
- Dust cover for RJ45 connection module
- 2 cable ties
- ISDN instruction manual

10

R25373

090.2437



Connection Module ISDN, 1x RJ45/s

- ISDN connection module with one shielded 8-pole Bus RJ45 port.

Supplied:

- Print with 1xRJ45 connection module and 4 Easy Lock terminal blocks
- Dust cover for RJ45 connection module
- 2 cable ties
- ISDN instruction manual

10

R25372

090.2336



Connection Module ISDN, 2x RJ45/u

- ISDN connection module with two unshielded 8-pole Bus RJ45 ports.

Supplied:

- Print with 2xRJ45 connection modules and 4 Easy Lock terminal blocks
- 2 dust covers for RJ45 connection module
- 2 cable ties
- ISDN instruction manual

10

R313562

090.2335



Connection Module ISDN, 2x RJ45/s

– ISDN connection module with two shielded 8-pole Bus RJ45 ports.

Supplied:

- Print with 2xRJ45 connection modules and 4 Easy Lock terminal blocks
- 2 dust covers for RJ45 connection module
- 2 cable ties
- ISDN instruction manual

10

R313563

020.0075



ISDN-T Resistor, 100 Ohm

– Resistor for a later fitting onto the Easy Lock clamps of the ISDN outlets.

Supplied:

- Kit containing 2 resistors

1

R25111

**Voice Integration
ISDN Mini-S-Bus**



Features

- For replacing or extending S-Bus cabling
- Capacity of 4 to 5 terminal devices
- Elegant design in white and anthracite
- Available in shielded and unshielded versions
- Generous labeling field
- Integral 100 Ohm-termination resistors (can be disabled with jumpers)
- Easily connected with plugs or cables
- Small in dimensions

Ordering Information

Description

PU

Part Number



ISDN Mini-S-Bus, digital/u,

- For connecting max. five ISDN terminal devices, replacing or extending S-Bus cabling systems.
- Supplied:
 - Mini-S-Bus unshielded incl. labeling fields
 - 2 double-sided adhesive tape 19x20x1.5 mm
 - Instruction manual

white

1

R25523

anthracite

1

R25522



ISDN Mini-S-Bus, digital/s,

- For connecting max. five ISDN terminal devices, replacing or extending S-Bus cabling systems.
- Supplied:
 - Mini-S-Bus shielded incl. labeling fields
 - 2 double-sided adhesive tape 19x20x1.5 mm
 - Instruction manual

white

1

R25521

anthracite

1

R25520



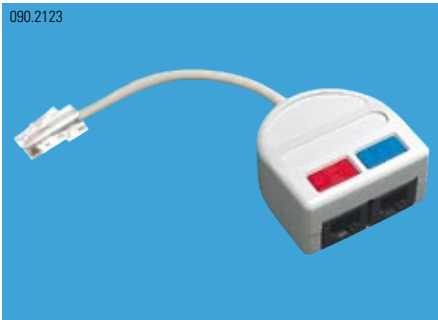
ISDN Mini-S-Bus, analog/u-digital/s,

- Features 2 analog, unshielded and 2 digital, shielded RJ45 connections.
- Supplied:
 - Mini-S-Bus analog/digital incl. labeling fields
 - 2x double-sided adhesive tape 19x20x1.5 mm
 - Instruction manual

white

1

R25987



Features

- For the connecting of telephones with RJ11 interfaces to cabling systems with RJ45 interfaces
- Unshielded version

Ordering Information

Description

PU

Part Number



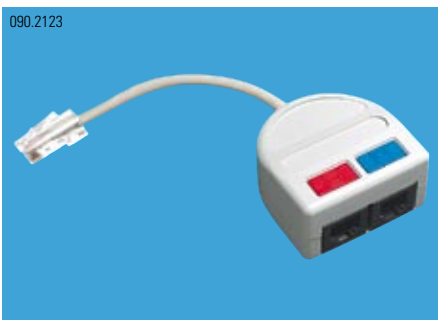
Patch Cord, U/UTP, 4P, PVC, RJ45/u-RJ11/u,

- RJ45 pin assignment: 4-5/3-6
- RJ11 pin assignment: 3-4/2-5

3 m
5 m

10
10

R925693
R925692



Splitter RJ45/u to 2xRJ11/u,

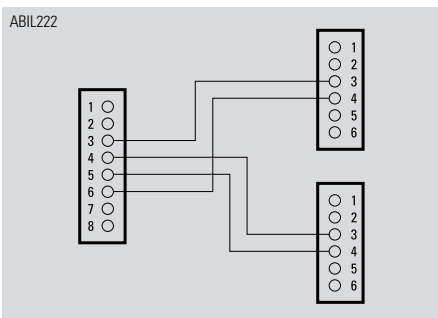
- For integrating RJ11 in F/FTP, SF/UTP and U/UTP cabling systems with RJ45 interfaces.

white

10

R925721

i See also splitter wiring chart RJ45/u-2x RJ11/u



Splitter Wiring Chart RJ45/u-2x RJ11/u

Voice Integration Telephony Distributor

020.0720



Features

- One RJ45 jack with the capacity to connect 4 terminal devices
- Full use of the connecting cable's conductors
- Termination options terminal clamp or jack (R25524 only)
- Selectable exit grounding connection via jumper (R25524 only)
- Generous labeling field
- Attractive design
- Small in dimensions

Ordering Information

Description

PU

Part Number

020.0720



Distributor 1xRJ45/u-4xRJ45/u,

- Combined use with the matching concentrator module (R35122) result in full use of all 8 conductors in generic cabling systems.

Supplied:

- Distributor 1x RJ45 unshielded to 4x RJ45 unshielded incl. labeling fields
- 2x double-sided adhesive tape 19x20x1.5 mm
- Instruction manual

anthracite

1

R35121

TAPI001



Distributor 1xRJ45-4xRJ11/u,

- For integrating RJ11 into F/UTP, SF/UTP and U/UTP cabling systems with RJ45 interfaces.

Supplied:

- Distributor 1x RJ45 to 4x RJ11 unshielded incl. labeling fields
- 2x double-sided tape 19x20x1.5mm
- Instruction manual

white

1

R25524

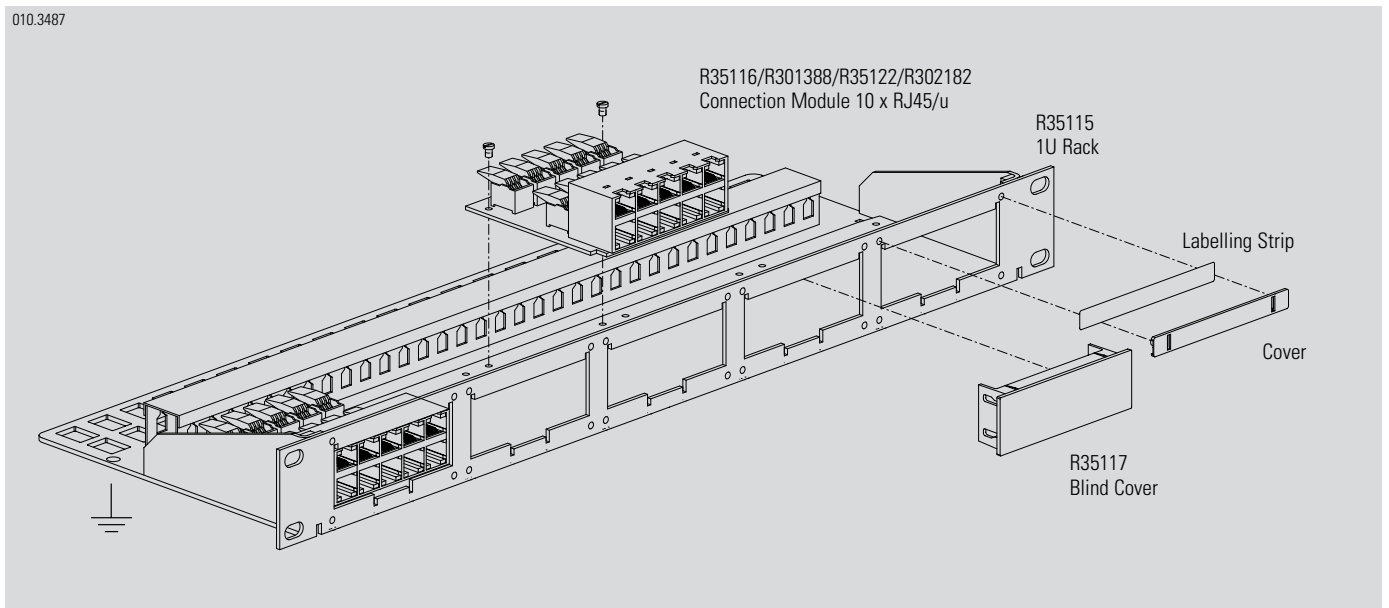


Selectable grounding connection

Particularly telephones in older installations still require a grounding control key. A third wire is thus needed at the RJ11 jack. This wire is not always assigned to the same pin in the RJ11 jack in different telephone systems. On the R&M distributor 1x RJ45-4x RJ11 it can be assigned to pin 1 or pin 4 of the RJ11 jack by help of a jumper. At entry side the tertiary cable's shield is the ground connection. It is linked to the RJ45 jack's shield or connected via terminal clip (distributors 1x RJ45/4x RJ11 only).

19" RJ45 Voice Panel

010.3487



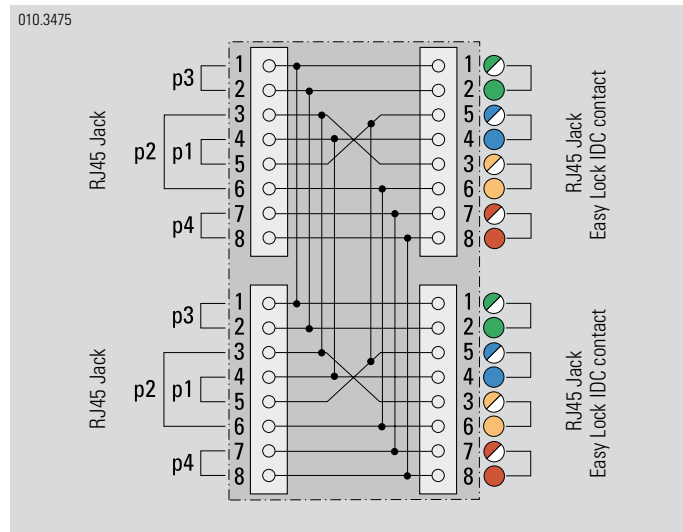
Connection module 10x RJ45/u (R35116)

Test criteria	Data/value
Operating temperature range	-10° C to + 55° C
NEXT /16 MHz	> 34 dB
Attenuation /16MHz	< 0.1 dB
Dielectric strength	> 1000 V AC (eff)
Insulating resistance	> 500 MΩ

Connection Module, 2x RJ45, ISDN



Pin assignment



Connection module, 1x RJ45/ 2x RJ45, ISDN

RJ45 jack

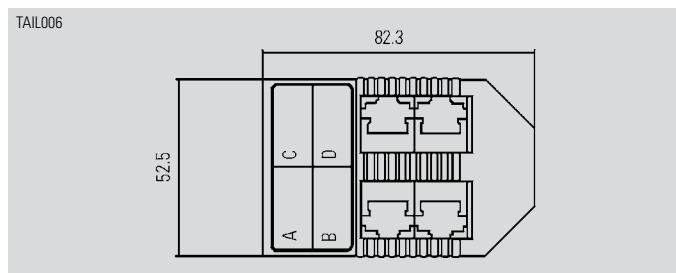
Characteristic	Value	Standards
Number of RJ45 jacks	1 and 2	
Contact material	spring bronze	
Contact surface	nickel-plated 3 µm, gold-plated 1.27 µm	
Insulation material	fiber-glass reinforced polyester	
Flame retardance	class V-0	UL 94
Mating cycles, min.	1000	ISO/IEC 11801

PCB terminal blocks Easy-Lock

Characteristic	Value	Standards
Number of IDC PCB terminal blocks	4	
IDC contact	in compliance with	IEC 60 352-4
IDC contact material	spring bronze, tin-coated	
Material termination body	polycarbonate	
Flame retardance	class V-0	UL 94
Admissible conductor Ø	0.25 - 0.65 mm	AWG 30 - 22
Admissible insulation Ø	0.70 - 1.60 mm	
Repeated wiring with the same or larger wire Ø	> 50	IEC 60 352-3
Dielectric strength	> 1000 V (eff)	IEC 60 512-2
Insulation resistance	> 500 MΩ (500 VDC)	IEC 60 512-2
Contact resistance	> 5 mΩ	IEC 60 352-3

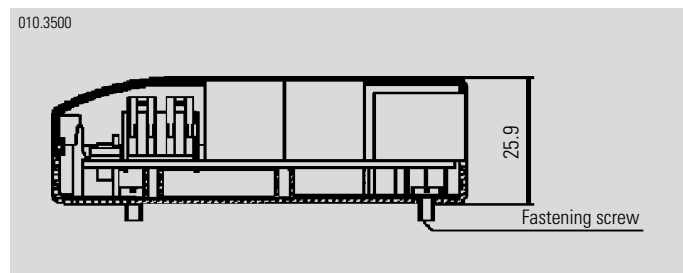
ISDN Mini-S-Bus

Layout:



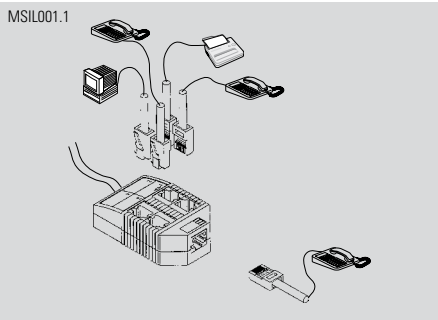
ISDN Mini-S-Bus

Profile:



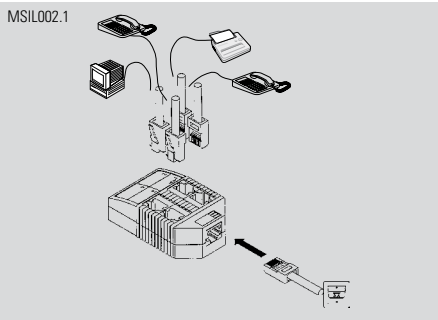
ISDN Mini-S-Bus digital

Connection option of fixed connection with max. 5 terminal devices.



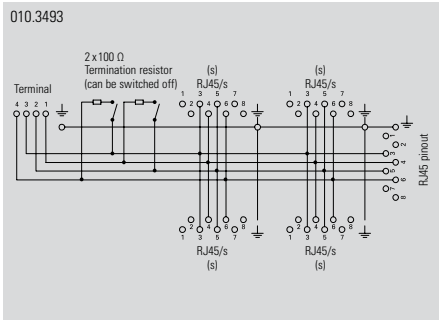
ISDN Mini-S-Bus digital

Connection option of connecting cable and max. 4 terminal devices.



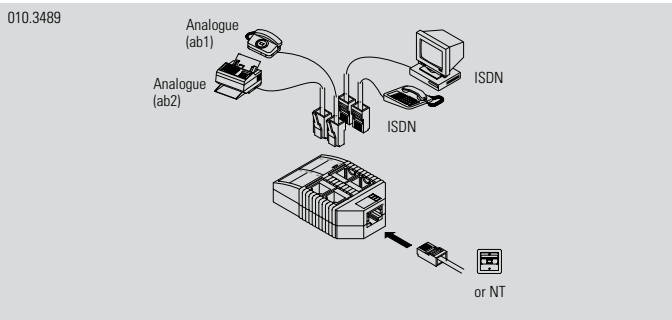
ISDN Mini-S-Bus digital

Pin assignment RJ45.



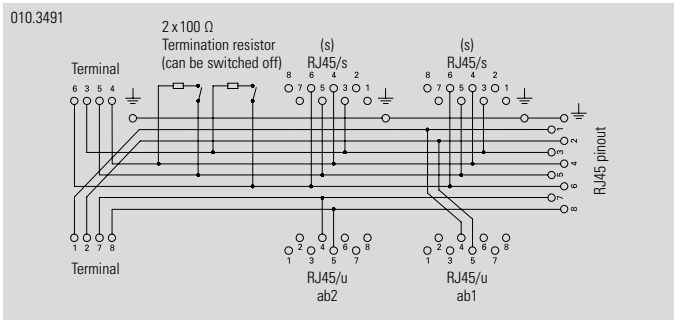
ISDN Mini-S-Bus analog/digital

Connection option with connecting cable and 2 analog and 2 digital devices.



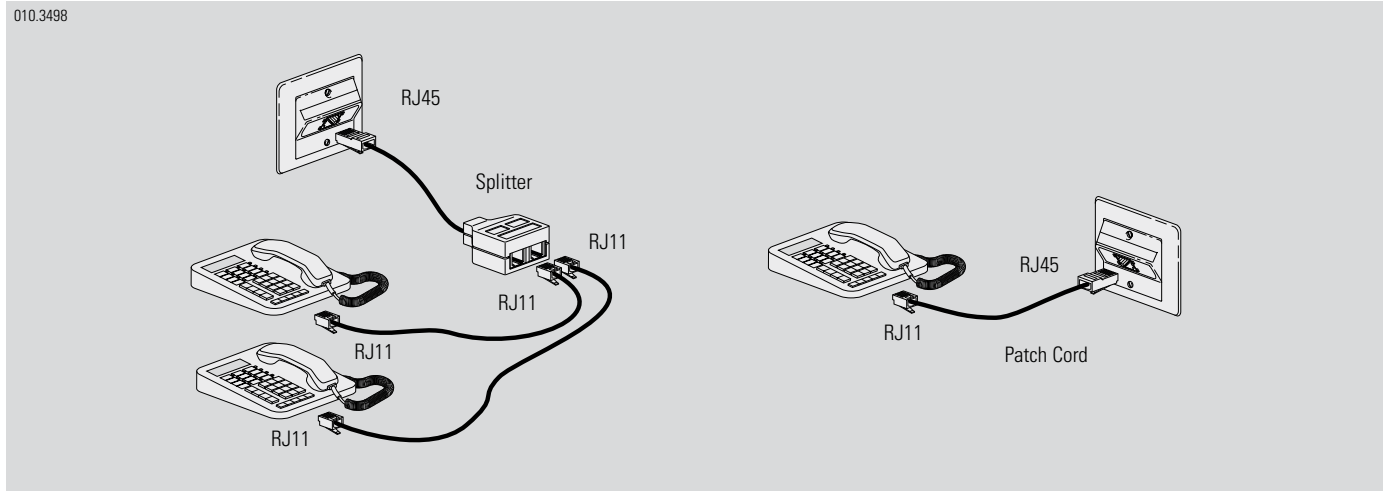
ISDN Mini-S-Bus analog/digital

Pin assignment RJ45.



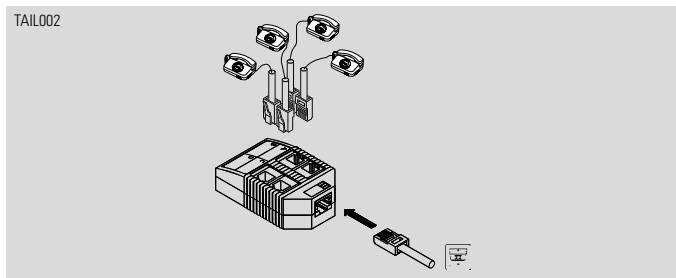
Telephony Adapter

Connection options splitter and telephone cables.



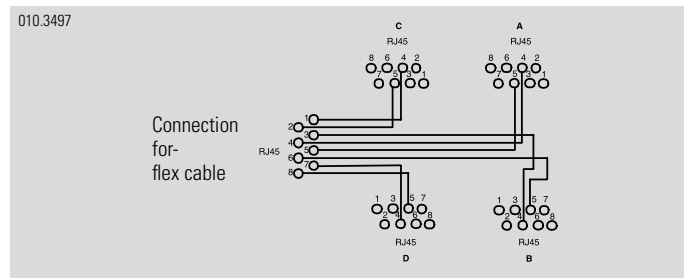
Distributor 1xRJ45-4xRJ45

Connection option of flexible connecting cable via RJ45 jack (max. 4 terminal devices).



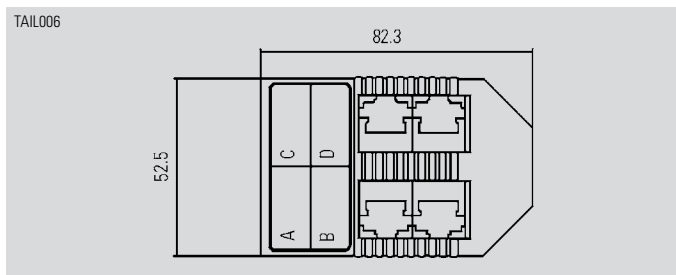
Distributor 1xRJ45-4xRJ45

Pin assignment:



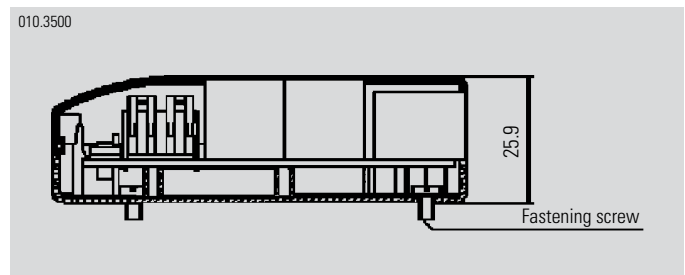
ISDN Mini-S-Bus

Layout:



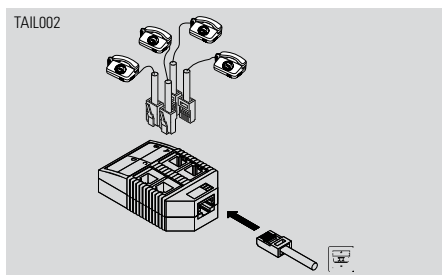
ISDN Mini-S-Bus

Profile:



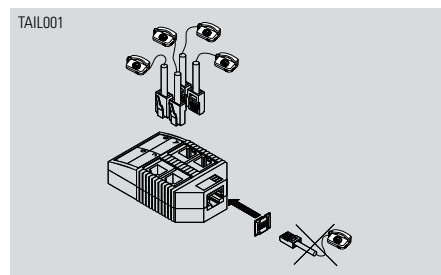
Distributor 1xRJ45-4xRJ11

Connection option of flexible connecting cable via RJ45 jack (max. 4 terminal devices).



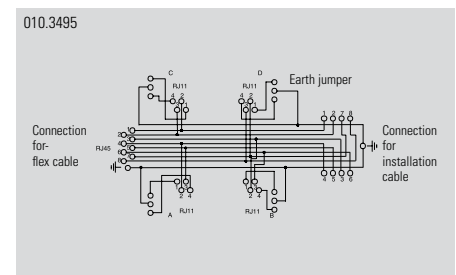
Distributor 1xRJ45-4xRJ11

Connection option of installation cable via terminal clamps (max. 4 terminal devices).



Distributor 1xRJ45-4xRJ11

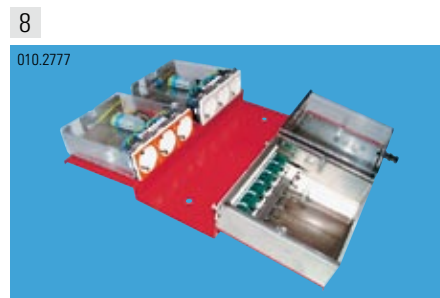
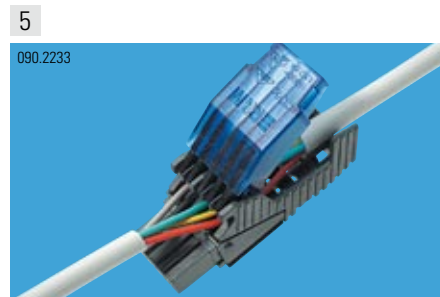
Pin assignment:





Data cabling with integrated power installations

- Installation solutions for combined data and power cabling
- Organized and protected cable routing to the workplace
- Modular connection boxes for individual cabling requirements
- Modern design offering high functionality



Products	Page
1 Get More, Extended Office Cabling	CU 110
2 Cable Tie Shelf	CU 111
3 Get More, 3-pole / 5-pole Cable Outlet	CU 113
4 RCO Power CO3p, 3-pole Cable Outlet	CU 114
5 RCO Power CO5p, 5-pole Cable Outlet	CU 117

Products	Page
6 RCO Power BO, Bus Outlet	CU 122
7 RCO Power Accessories	CU 123
8 FB COMBIbox	CU 124
9 INTERbox	CU 126



Data cabling with integrated power installations

- Installation solutions for combined data and power cabling
- Organized and protected cable routing to the workplace
- Modular connection boxes for individual cabling requirements
- Modern design offering high functionality



Products

Products	Page
1 Cable Passages	CU 128
2 FLEXkanal	CU 131
3 Cable Management Panel	CU 133
4 DESKbox, empty and assembled	CU 134
5 DESKbox, assembled, with power cable	CU 137

Products

Products	Page
6 DESKbox Accessories	CU 142
7 Techn. Data Cable Support	CU 145
8 Techn. Data C03p 3-pole Cable Outlet	CU 146
9 Techn. Data C05p 5-pole Cable Outlet	CU 148



Data cabling with integrated power installations

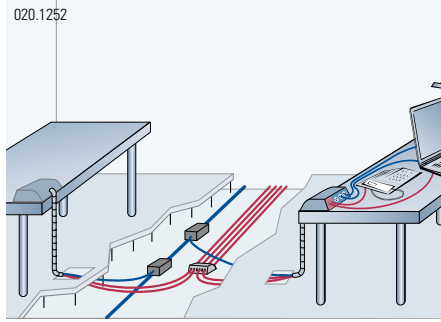
- Installation solutions for combined data and power cabling
- Organized and protected cable routing to the workplace
- Modular connection boxes for individual cabling requirements
- Modern design offering high functionality

Products	Page
1 Techn. Data Bus Outlet	CU 150

Get More, Extended Office Cabling



The whole range in action: RCO Power CO 3-pole, cable support connector systems, power cable and power box in raised floors.



Decentralized workplace data supply through consolidation points. Power supply is connected through the round cable adapters.



Multifunctional DESKbox offering multimedia connections.



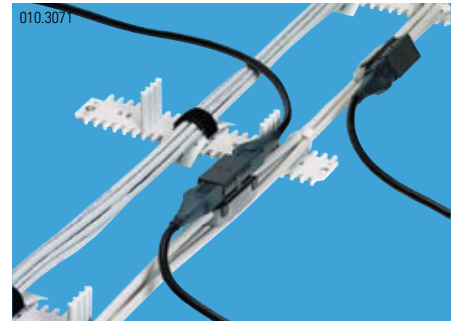
Continuous cable routing from raised floors up to the workplace.

010.2936

get more

- Installation concept for power and telecommunication outlets
- More flexibility in designing rooms and modifying workplaces
- Saving time and costs by offering an overall concept
- Customer-specific solutions through production location

@ R&M



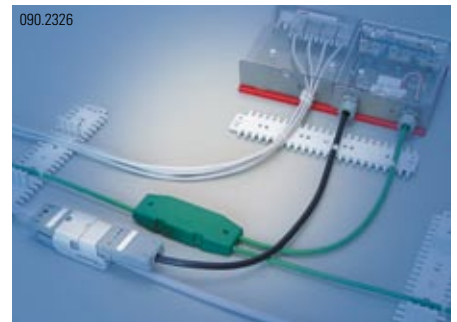
RCO Power combined with cable tie shelf connector systems - never before have power supply installations been so convenient.



More flexibility to the workplace with movable DESKboxes.



The specifically for use with Intercell cable management floors developed COMBIbox model.



Field-terminated connection solution for quick power and bus cabling installations in ceilings and floors.



Features

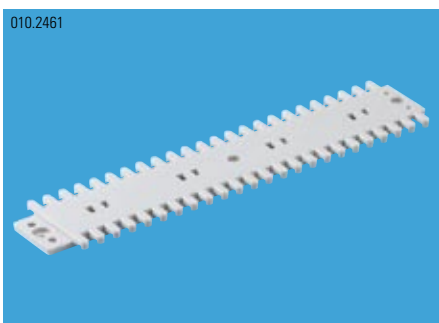
- Neat separation of light and heavy current cables through partition elements
- Perfect for use in hollow ceilings, floors and riser zones
- Cable bridges avoid any pressure on sensitive light-current and coaxial cables
- Mechanically high-strength, halogen-free plastic rail of 25 cm
- Can be linked together to form any required length

Ordering Information

Description

PU

Part Number



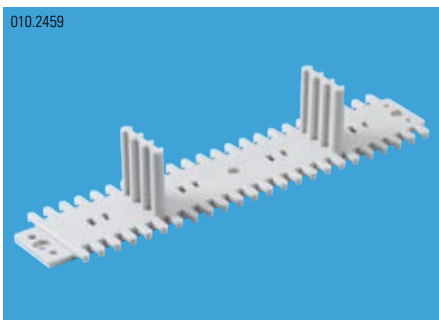
Cable Tie Shelf, flat

- For the surface mounting of cable bundles in hollow floors and riser zones.
- Cable tie shelf (8 mm) without partitions.
- Dimensions: 250 x 55 x 8 mm

KTR8 Cable Tie Shelf 8 mm, flat

100

R307367



Cable Tie Shelf, flat, with Partitions

- For the surface mounting of cable bundles in hollow floors and riser zones.
- Cable tie shelf featuring partitions.

KTR30 Cable Tie Shelf, 30 mm, flat

100

R307369

KTR45 Cable Tie Shelf, 45 mm, flat

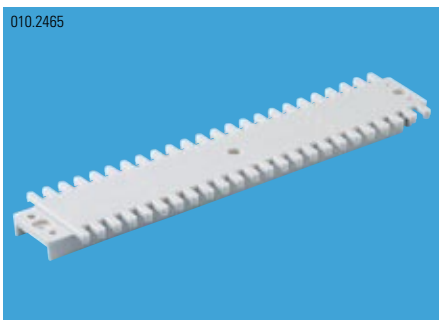
100

R307370

KTR68 Cable Tie Shelf, 68 mm, flat

100

R307371



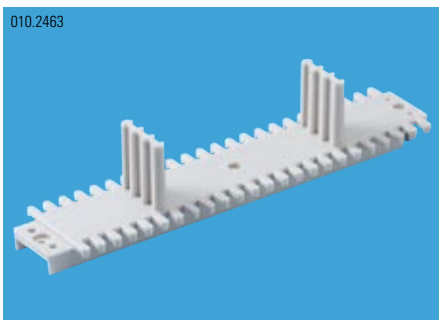
Cable Tie Shelf, raised

- For the surface mounting of cable bundles in hollow floors and riser zones.
- Cable tie shelf (15 mm) without partitions.
- Dimensions: 250 x 55 x 15 mm

KTR15 Cable Tie Shelf, 15 mm, raised

50

R307372



Cable Tie Shelf, raised, with Partitions

- For the surface mounting of cable bundles in hollow floors and riser zones.
- Cable tie shelf featuring partitions.

KTR37 Cable Tie Shelf, 37 mm, raised

50

R307374

KTR52 Cable Tie Shelf, 52 mm, raised

50

R307375

KTR75 Cable Tie Shelf, 75 mm, raised

50

R307376

**Power Integration
Cable Tie Shelf**

010.2475



Cable Bridge, Velcro Taped

- For direct surface mounting or snapped on anywhere on the cable tie shelf.
- Ideal for data and fiberoptic cables.
- Avoids cable tie-caused pressure on the cables.

KBR Cable Bridge, without Velcro tape

50

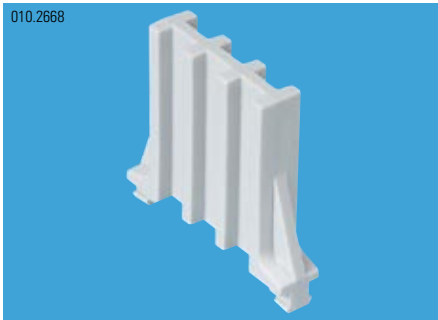
R307431

KBR20 Cable Bridge, with 20 cm Velcro tape

50

R307429

010.2668



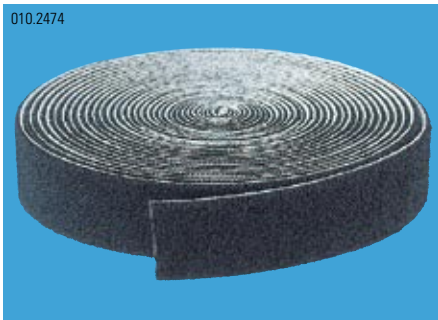
Partition Element, 45 mm, for cable tie shelf

- Simply snapped on anywhere on the cable tie shelf.
- Partition height 37 mm when snapped on.

100

R307365

010.2474



KB500 Velcro Tape,

- For bundling and fixating pressure-sensitive data and fiberoptic cables.

5 m

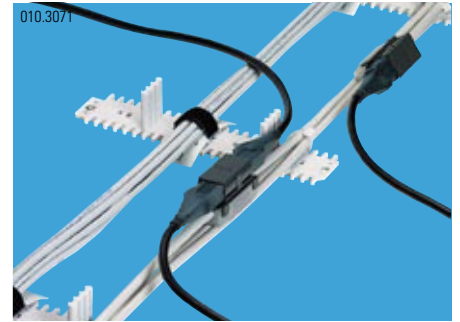
1

R307433



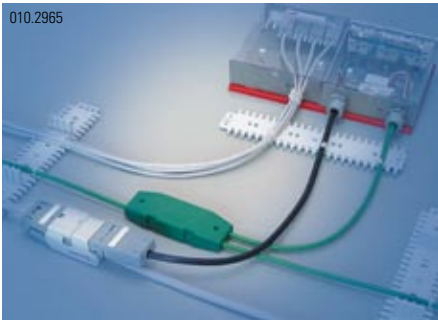
Cable Outlet CO 3-pole

Requires little space in wall ducts thanks to its compact format with two parallel outlets.



C03p in double floors

Simple, fast and convenient installation.



RCO Power

Field-terminated connection solution for fast and simple power cabling in ceilings and floors.

get more

More efficiency and security

- Connection ready in 40 seconds
- Tool-free IDC contacting
- Suitable for wiring to all customary round cables
- Installation without branch boxes



RCO Power in hollow ceilings

RCO Power round cable adapter conveniently close to the user in hollow ceiling installations.



C03p Power bus

Its capacity covers the whole room, requiring few cables, reducing fire load and maximizing operational reliability.

Power Integration
RCO Power C03p, 3-pole Cable Outlet



Features

- Enables a branch to be implemented without the need to cut the conductors of the round cable, consisting of 3 x 1.5 - 2.5 mm² solid wires.
- Wires are terminated using the well-proven insulation displacement contact (IDC) technique
- The different colors of the label provide identification of the different electric circuits
- SEV, VDE, ÖVE and KEMA certified
- Meets security standards IEC/EN 61984, IEC/EN 60998-2-3

Ordering Information

Description

PU

Part Number



010.3229

C03p Round Cable Adapter

- Adapter with two 3-pole outlets, suitable for wiring to round cables of 3 x 1.5-2.5 mm² (rigid wires).

Supplied:

- Adapter housing
- Wiring cover
- Adapter cover
- Installation instructions

3 x 1.5-2.5/r

10

R309842



010.3229

C03p Round Cable Adapter

- Adapter with two 3-pole outlets, suitable for wiring to round cables of 3 x 2.5 mm² (flexible wires).

Supplied:

- Adapter housing
- Wiring cover
- Adapter cover
- Installation instructions

3x 2.5/f

10

R312134



010.3082

C03p Plug with Cable 3 x 1.5 mm², PVC, black,

Supplied:

- Assembled 3 x 1.5 mm² cable, black, with 3-pole extrusion-coated plug
- Open wire end. Strand ends are ultrasonically sealed

0.5 m

10

R308206

1.0 m

10

R309435

2.0 m

10

R308209

3.0 m

5

R309437

5.0 m

5

R309438

8.0 m

3

R309764

010.3082



C03p Plug with Cable 3 x 1.5 mm², PVC halogen-free, black,

Supplied:

- Assembled 3 x 1.5 mm² cable with 3-pole extrusion-coated plug
- Open wire end. Strand ends are ultrasonically sealed

0.5 m	10	R309765
1.0 m	10	R309766
2.0 m	10	R309767
3.0 m	5	R309768
5.0 m	5	R309769
8.0 m	3	R309770

090.2098



C03p Termination Kit

- Can be snapped onto either side for the termination of the C03p round cable adapter at cable end.
- The opposite end must be fitted with a strain relief.

Supplied:

- Conductor insulation part
- Strain relief part
- Strain relief bracket
- Screws
- Installation instructions

10 R309059

010.3083



C03p Strain Relief

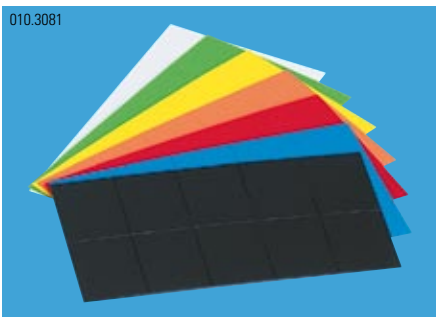
- Can be snapped onto both sides of cables with diameters of 6.5 - 10.5 mm.

Supplied:

- Strain relief
- Strain relief bracket
- Screws
- Installation instructions

10 R309867

010.3081



C03p Sheet of 10 Labels,

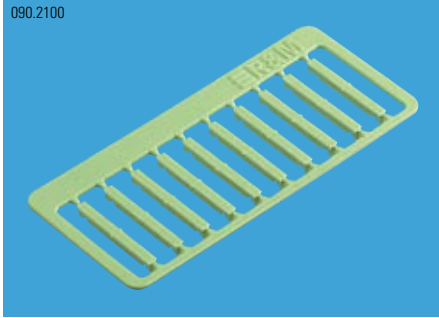
- For the visual coding of different circuits.

Supplied:

- 10 sheets of 10 plastic labels each.

white	10	R309718
green	10	R309722
yellow	10	R309723
orange	10	R309720
red	10	R309724
blue	10	R309721
black	10	R309719

Power Integration
RCO Power C03p, 3-pole Cable Outlet



C03p Coding Kit,

– Mechanical coding pins make sure that groups of users are only plugged into sockets of their respective power circuit.

Supplied:

- Rack with 10 coding pins
- Installation instructions

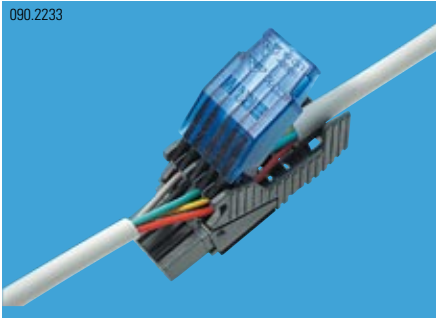
green

10

R309973



IDC = Insulation Displacement Contact



Features

- Enables a branch to be implemented without the need to cut the conductors of the round cable, consisting of 5 x 1.5 - 2.5 mm² solid wires.
- Wires are terminated using the well-proven insulation displacement contact (IDC) technique
- The different colors of the label provide identification of the different electric circuits
- SEV and VDE certified
- Meets security standards IEC/EN 61984, IEC/EN 60998-1, IEC/EN 60998-2-3 compliant

Ordering Information

Description

PU

Part Number



C05p Adapter, 5-pole,

- Adapter with one 5-pole outlet, suitable for wiring to round cables of diameter 5 x 1.5-2.5 mm² (rigid wire).

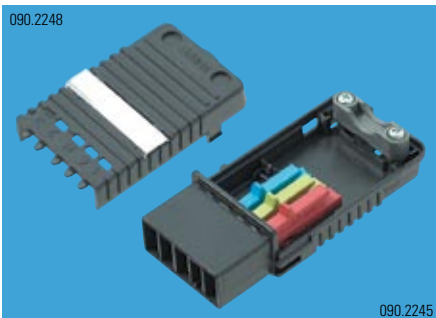
Supplied:

- Adapter housing
- Wiring cover
- Adapter cover
- Labeling strip
- Installation instructions

5 x 1.5-2.5/r

1

R312837



C05p Plug, 3-pole, complete,

- Field-terminated plug (400V/16A) for C05p adapters (400V/16A), suitable for connecting stranded 3-pole cables.

Supplied:

- Plug housing
- Plug cover
- Connector pin PE, N, L1
- Strain relief
- Connector locking
- Labeling strip
- Installation instructions

3 x 1.5 mm²

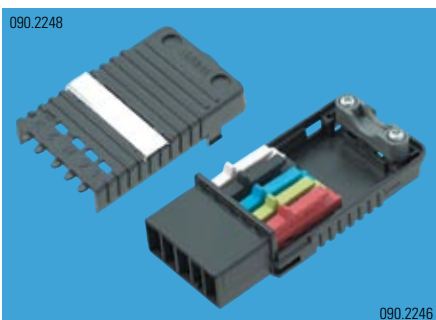
25

R307479

3 x 2.5 mm²

25

R307480



C05p Plug, 5-pole, complete,

- Field-terminated plug (400V/16A) for C05p adapters (400V/16A), suitable for connecting stranded 5-pole cables.

Supplied:

- Plug housing
- Plug cover
- Connector pins PE, N, L1, L2, L3
- Strain relief
- Connector locking
- Labeling strip
- Installation instructions

5 x 1.5 mm²

25

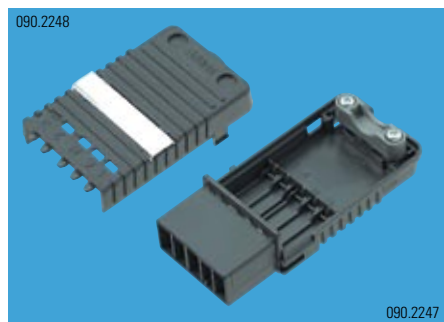
R307481

5 x 2.5 mm²

25

R307482

Power Integration
RCO Power C05p, 5-pole Cable Outlet



C05p Plug Housing (400V/16A),

- Field-terminated plug for C05p adapters, 5-pole (400V/16A).
- Without connector pins.

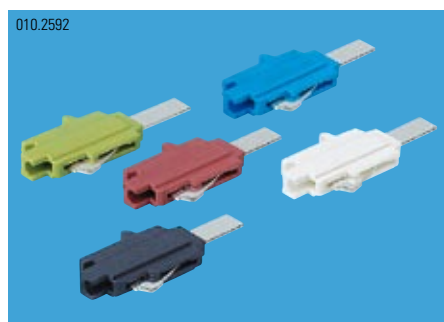
Supplied:

- Plug housing
- Plug cover
- Strain relief
- Connector locking
- Labeling strip
- Installation instructions

empty

25

R307484



C05p Connector Pin 1.5 mm²,

- For the terminating of flexible wires (1.5 mm²) without stripping.
- The side window provides optical control for correct termination.

Supplied:

PE yellow/green

10

R307485

N light blue

10

R307486

L1 brown

10

R307488

L2 black

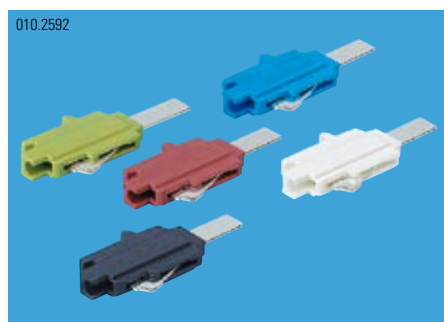
10

R307487

L3 gray

10

R312086



C05p Connector Pin 2.5 mm²,

- For the terminating of stranded wires (2.5 mm²) without stripping.
- The side window provides optical control for correct termination.

PE yellow/green

10

R307490

N light blue

10

R307491

L1 brown

10

R307493

L2 black

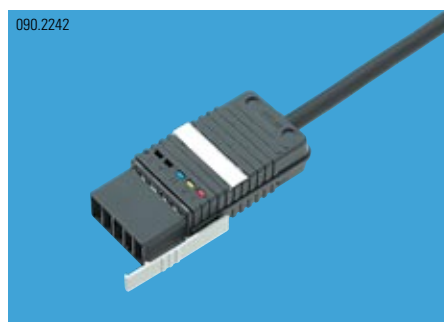
10

R307492

L3 gray

10

R312088



C05p Plug, 3-pole, with cable Td 3x1.5 mm², black,

- The C05p plug (400V/16A) comes assembled with cable.
- The cable end is left open.
- Phase assignment is visible through the sight window.

Supplied:

- C05p plug, 3-pole, complete
- Td cable 3x1.5 mm², black (PVC)
- Cable wired to PE, N, L1; cable end left open

0.5 m /L1

1

R307715

1.0 m /L1

1

R307716

2.0 m /L1

1

R307717

3.0 m /L1

1

R307718

5.0 m /L1

1

R307719

090.2243



C05p Plug, 5-pole, with cable Td 5x1.5 mm², black,

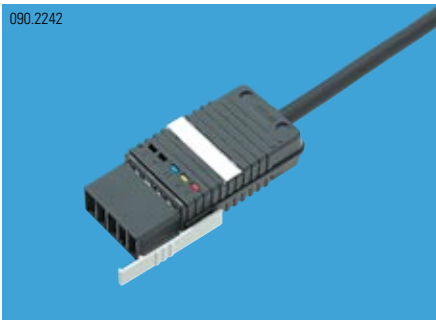
- The C05p plug (400V/16A) comes assembled with cable.
- The cable end is left open.
- Phase assignment is visible through the sight window.

Supplied:

- C05p plug, 5-pole, complete
- Td cable 5x1.5 mm², black (PVC)
- Cable wired to PE, N, L1, L2, L3; cable end left open

0.5 m	1	R307721
1.0 m	1	R307722
2.0 m	1	R307723
3.0 m	1	R307724
5.0 m	1	R307725

090.2242



C05p Plug, 3-pole, with cable FE0-flex 3x1.5 mm², gray,

- The C05p plug (400V/16A) comes assembled with cable.
- The cable end is left open.
- Phase assignment is visible through the sight window.

Supplied:

- C05p plug, 3-pole, complete
- FE0-flex cable 3x1.5 mm², gray (PE compound, halogen-free)
- Cable wired to PE, N, L1; cable end left open

0.5 m / L1	1	R307726
1.0 m / L1	1	R307727
2.0 m / L1	1	R307728
3.0 m / L1	1	R307729
5.0 m / L1	1	R307730

090.2243



C05p Plug, 5-pole, with cable FE0-flex 5x1.5 mm², gray,

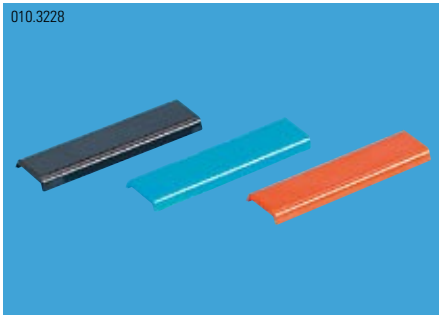
- The C05p plug (400V/16A) comes assembled with cable.
- The cable end is left open.
- Phase assignment is visible through the sight window.

Supplied:

- C05p plug, 5-pole, complete
- FE0-flex cable 5x1.5 mm², gray (PE compound, halogen-free)
- Cable wired to PE, N, L1, L2, L3; cable end left open

0.5 m	1	R307732
1.0 m	1	R307733
2.0 m	1	R307734
3.0 m	1	R307736
5.0 m	1	R307737

Power Integration
RCO Power C05p, 5-pole Cable Outlet



C05p Label Clip,

- Plastic label clips to label C05p adapters and C05p plugs.
- Suitable for waterproof markers or transparent sticks.
- For visually distinguishing power circuits, i.e. power grid, UPS group, connected groups, etc.

black	10	R310738
blue	10	R310736
orange	10	R310737



C05p Plug, 3-pole - 1x 3-pole Wieland (Gesis)

- Supplied:
- C05p plug, 3-pole. Wired on PE, N, L1
 - 3-pole Wieland socket (Gesis)

	1	R307896
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C05p Plug, 3-pole - 3x 3-pole Wieland (Gesis),

- Supplied:
- C05p plug, 3-pole. Wired on PE, N; conductors on L1, L2, or L3
 - 3x 3-pole sockets Wieland (Gesis)

L1	1	R307496
L2	1	R307497
L3	1	R307498



C05p Plug, 5-pole - 3x 3-pole Wieland (Gesis),

- Supplied:
- C05p plug, 5-pole. Wired on PE, N, L1, L2, L3
 - 3x 3-pole sockets Wieland (Gesis)

L1, L2, L3, socket black	1	R307499
L1, L2, L3, socket white	1	R307500

010.0932



C05p Label Sheet A4,

Supplied:

- A4 sheet of 99 self-adhesive label strips (blank)

For labeling:

- C05p plug, 3-pole - 3x 3-pole Wieland
- C05p Plug, 5-pole - 3x 3-pole Wieland

99 strips, for multiplugs Wieland

1

R307784

010.0932



C05p Label Sheet A4,

Supplied:

- A4 sheet of 220 label strips
- Paper thickness 0.15 mm

For labeling:

- C05p adapter
- C05p plug, 3-pole
- C05p plug, 5-pole

220 strips, for C05p adapter/plug

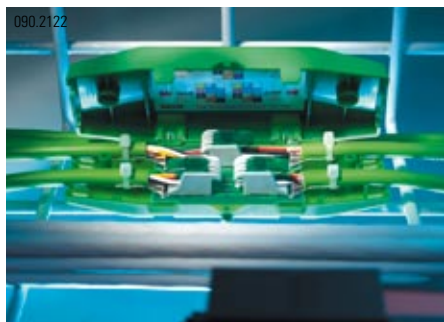
1

R307501



On request we also assemble C05p plugs to other cable types of different lengths. Strand ends can be fitted with sleeves or ultrasonically sealed.

Power Integration
RCO Power B0, Bus Outlet



Features

- BusOutlets are used as connection or branch boxes for 4-pole bus cables
- They can be wired to the cable at the exact spot a connection is required
- Provide maximum use of the admissible link length
- The use of round cables with twisted pairs eliminates any potential EMC problem

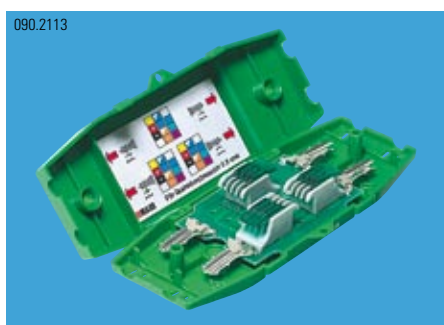
Dimensions: 130 x 46 x 22 mm

Ordering Information

Description

PU

Part Number



Bus Outlet "easy-2",

- Box for one bus cable and two 4-pole connecting cables for wire diameter Ø 0.8 mm.

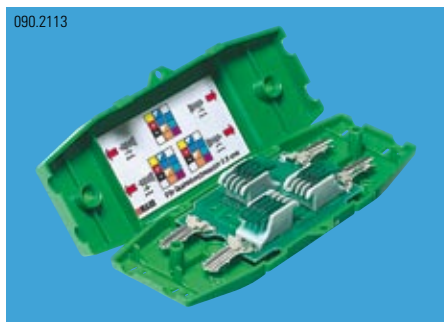
Supplied:

- Box for shielded or unshielded 4-pole bus cables
- 4 cable ties
- Instruction manual

4x 0.8 mm, shielded

1

R311818



Bus Outlet "easy-2",

- Box for one bus cable and two 4-pole connecting cables for wire diameters of 0.35 - 0.65 mm.

Supplied:

- Box for shielded or unshielded 4-pole bus cables
- 4 cable ties
- Instruction manual

4x 0.35-0.65 mm, shielded

1

R311565



Bus Outlet Label Sheet A4,

Supplied:

- A4 sheet of 110 self-adhesive label strips (blank)
- Paper thickness 0.15 mm

For labeling:

- Bus Outlet

110 strips

1

R307714

i Can be fitted with 4-pole connectors or 4-pole screw clamps for stranded wires of 0.5-1.5 mm² on request.



Ordering Information	Description	PU	Part Number
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010.3230

Cable Stripper "RCO Power"

Supplied:
– Cable stripper for cables of 4 - 16 mm in diameter.

1

R310135



090.2101

RCO DIN Top-Hat Rail Adapter

– Suitable for fastening CO3p adapters, CO5p adapters and Bus Outlets onto DIN 35 mounting rails.

Supplied:
– DIN 35 top-hat rail adapter
– 2x 3M dual locks
– Instruction manual

1

R311559



090.2146

CO Cable Repair Kit

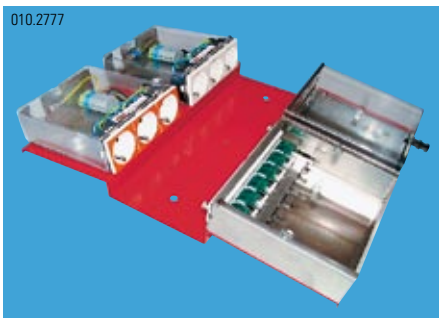
– Suitable for cables of 3x1.5 mm² to 5x2.5 mm².

1

R311915

Power Integration
FB COMBIbox

010.2777



Features

- These floorboxes offer easy mounting and positioning
- Stainless sheet steel bottom plates
- Snap-on cover made of transparent polycarbonate
- Generous spatial design makes them ideal for different applications
- Different base options make sure the positioning is user-friendly and secure

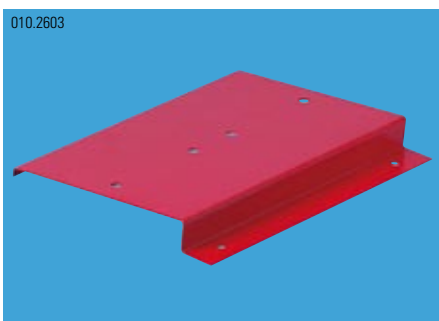
Ordering Information

Description

PU

Part Number

010.2603



FB COMBIbox, base with 2 consecutive positions,

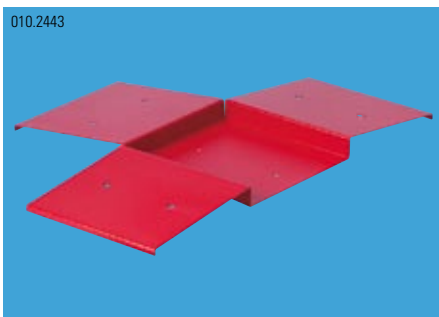
- With a capacity for 2 COMBIboxes.

red

1

R307811

010.2443



FB COMBIbox, 3-Position Base, T-shape,

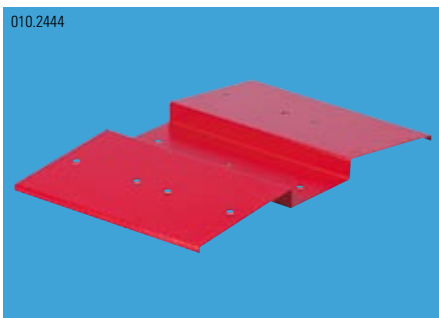
- With a capacity for 3 COMBIboxes in a T-shaped arrangement.

red

1

R307813

010.2444



FB COMBIbox, 4-Position Base, parallel,

- With a capacity for 4 COMBIboxes, 2 and 2 parallel.

red

1

R307814

010.2484



FB COMBIbox, empty,

- Data outlet for 6 RJ45 R&Mfreenet modules, featuring 2 cable entries with strain relief lugs.

6x RJ45 R&Mfreenet

1

R307810



Excluding modules and module frames.

090.2095



FB COMBIbox, fully populated,

Supplied:

- COMBIbox empty, featuring 2 M20 cable entries
- 3 Schuko sockets, white, wired to PE, N, L1
- Terminal block 5x2.5 mm², PE, N, L1, L2, L3
- M20 cable screw

3x Schuko/white

1

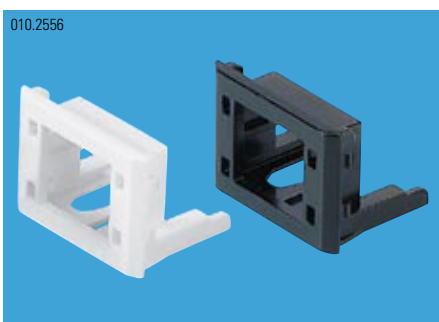
R307809



On request equipped with:

- Schuko (white, black, orange)
- T13 (white, black, orange)

010.2556



Module Holder for RJ45/E-2000™ Compact/SC-RJ Adapter,

white
black

10

R307832

10

R307833

Power Integration
INTERbox



Features

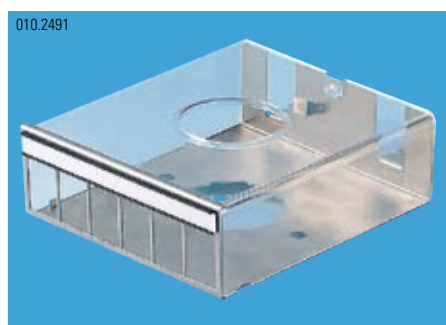
- Best power outlet for compact and flexible installations in INTERCELL cabling floors
- 45° mounting position for ideal connection point access
- Power and data outlets available
- Available connector-ready on request
- Sheet steel bottom plate(stainless)
- Plastic cover (zero-halogen)

Ordering Information

Description

PU

Part Number



010.2491

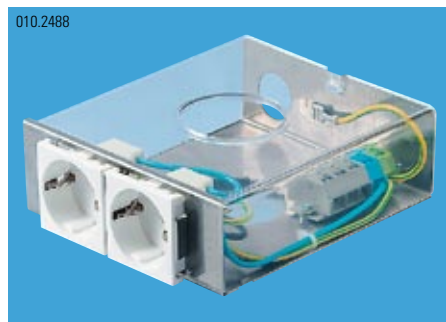
INTERbox, empty,

- Data outlet for 6 x RJ45 R&Mfreenet modules, featuring 2 cable entries with strain relief lug (excluding modules and module frames).

6x RJ45 R&Mfreenet

1

R307818



010.2488

INTERbox, fully populated,

- Suitable for use of right-angle plugs in INTERCELL cabling floors with 60 mm hollow floor heights.

Supplied:

- INTERbox empty, featuring 2 M20 cable entries
- 2 Schuko sockets, white, wired to PE, N, L1
- Terminal block 5x2.5 mm², PE, N, L1, L2, L3
- M20 cable screw

2x Schuko/white

1

R307815



090.2094

INTERbox, fully populated,

Supplied:

- INTERbox empty, featuring 2 M20 cable entries
- 3 Schuko sockets, white, wired to PE, N, L1
- Terminal block 5x2.5 mm², PE, N, L1, L2, L3
- M20 cable screw

3x Schuko/white

1

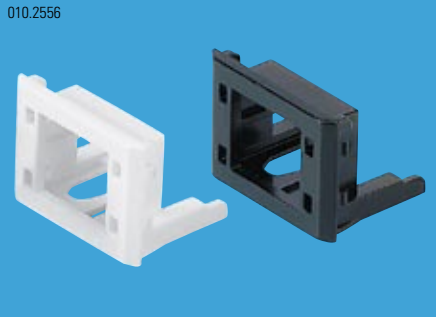
R307816



On request equipped with:

- Schuko (white, black, orange)
- T13 (white, black, orange)

010.2556



**Module Holder for RJ45/E-2000™ Compact/SC-
RJ Adapter,**

white
black

10
10

R307832
R307833

Power Integration Cable Passages



Features

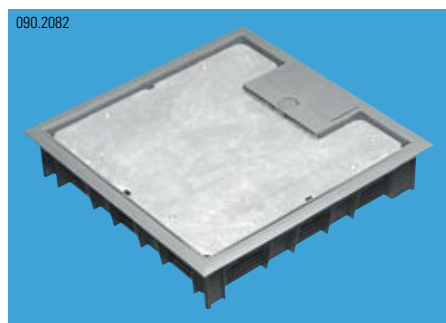
- Designed as access openings for central and decentralized consolidation points (CP) or direct connection points at the workplace
- Compliant with safety standards of IEC 61084-2-2, IEC 1084-1
- CE certified

Ordering Information

Description

PU

Part Number

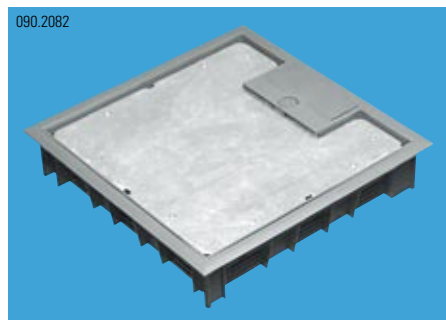


Cable Passage 225x225-5 mm

- The components of this cable outlet are a mounting unit with carpet-friendly sides and a flap cover.
- Suitable for heights up to 5mm.
- Required cutout size: 209 x 209 mm

1

R311829

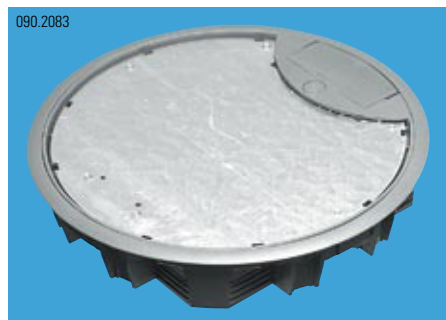


Cable Passage 282x282-5 mm

- The components of this cable passage are a mounting unit with carpet-friendly sides and a flap cover.
- Suitable for heights up to 5mm.
- Required cutout size: 264 x 264 mm

1

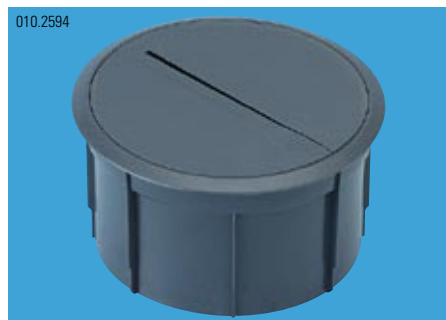
R311828



Cable Passage Ø-325-5 mm

1

R311830



Cable Passage Ø-81x44 mm,

- This cable passage features a slitted cover for cable entry.
- Suitable for raised floors.
- Dimensions: Outer-Ø 81 mm, inner-Ø 68 mm, required-Ø 76 mm.

Supplied:

- Bottom part (Ø-81 x 44 mm)
- Cover (Ø-74 mm) with cable entry

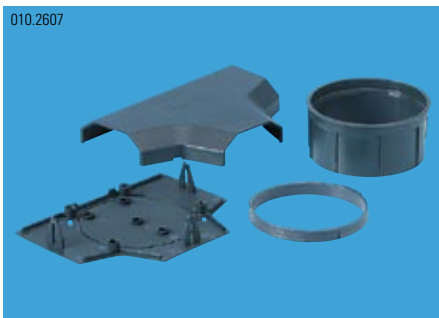
graphite gray
light gray

10

R307583

10

R307584



Cable Passage Ø-95 mm and FLEXkanal T-Piece,

- Cable grommet for use in raised floors.
- The featured connecting ring allows direct mounting of a T-distributor.
- Dimensions: Height: 44 mm, required-Ø 95 mm.

Supplied:

- Cable passage Ø-95 mm
- Connecting ring between grommet and T-piece bottom plate
- FLEXkanal T-piece bottom plate
- FLEXkanal T-piece cover

anthracite

10

R307699



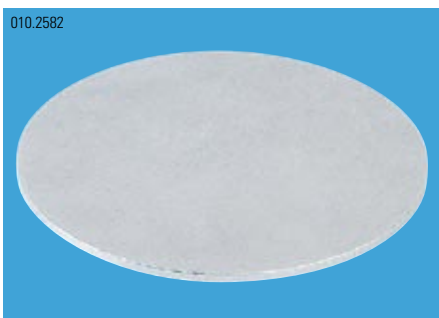
Cable Passage Ø-95 mm and FLEXkanal Link,

- Cable grommet for use in raised floor featuring FLEXkanal link.
- Required-Ø: 95 mm

anthracite

1

R312767

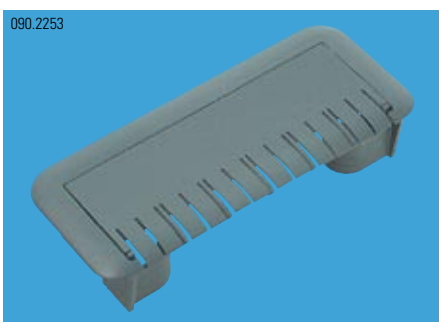


Blind Cover for Ø-95 mm Cable Passage

- To cover unused outlets.

10

R307829



Cable Passage 50x125 mm, Frame and Lamella

Supplied:

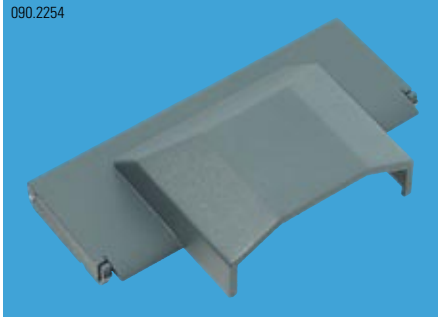
- Frame 50x125 mm
- Cable passage with lamella
- Fastening kit

1

R312768

Power Integration Cable Passages

090.2254



Cable Passage 50x125 mm, FLEXkanal Link

Supplied:

- Cable passage with FLEXkanal link

1 R312766



Excluding frame 50x125 mm

010.2583

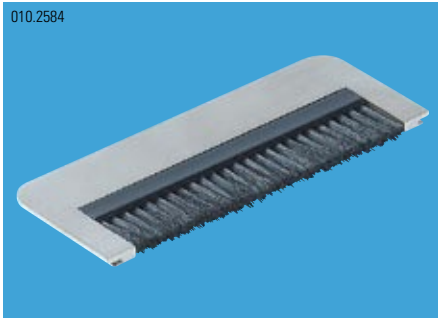


Cable Passage 46.5x123x19 mm

- Cable passage holder, made of stainless sheet steel and featuring 3 fastening holes.

1 R307826

010.2584

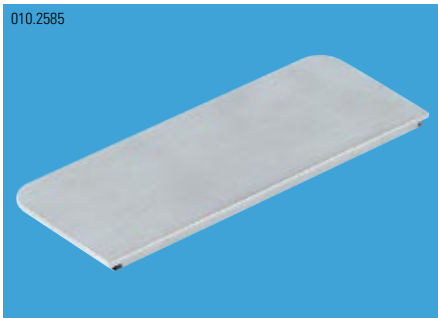


Cover with Brush for Cable Passage

- Insert for cable passages, to slide in from the side, featuring a brush.

1 R307824

010.2585

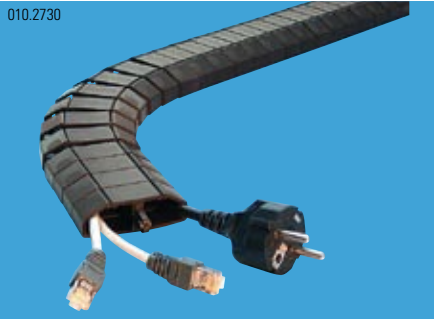


Blind Cover for Cable Passage

- Blind cover insert to slide in from the side.

1 R307823

010.2730



Features

- For an organized and protected cable routing up to your desk
- For connecting deskboxes with cable ducts or floor connection boxes
- Integral cable organization in two channels

Capacity per channel:

- 2 cables of Ø- 8.5 mm or 3 cables of Ø- 7.5 mm or 4 cables of Ø - 7.0 mm or 5 cables of Ø - 6.0 mm

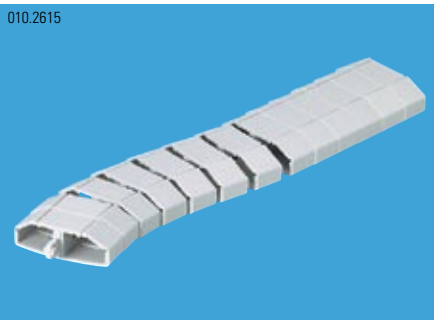
Ordering Information

Description

PU

Part Number

010.2615



FLEXkanal, extended 1 m,

- For an organized and protected cable routing up to your desk, connecting deskboxes with cable ducts or floor connection boxes.
- Integral cable organization in two channels.
- Length 1m in extended form.

black gray

1

R302724

light gray

1

R307688

white

1

R307689

red

1

R307976

ultramarine

1

R307690

yellow

1

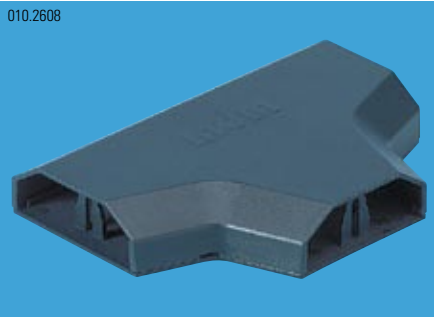
R307831

yellow/black gray

1

R307830

010.2608



FLEXkanal T-piece,

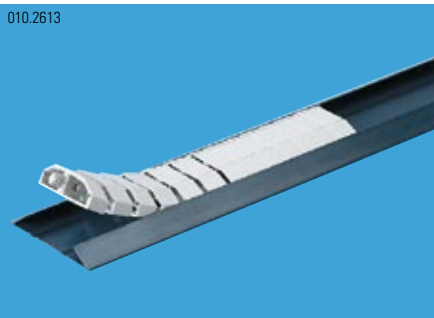
- T-piece junction for workplace branching.
- Supplied:
 - FLEXkanal floor T-piece
 - FLEXkanal T-piece cover

anthracite

10

R307703

010.2613



FLEXkanal Floor Rail,

- Fix the rail on the floor, press the FLEXkanal into it.
- The angled sides minimize the tripping risk.

1 m, anthracite

10

R307700

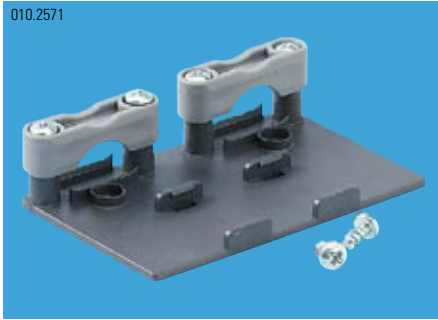
2 m, anthracite

10

R307701

Power Integration
FLEXkanal

010.2571



FLEXkanal Holder with 2x Strain Relief,

- The FLEXkanal directly fits the holder.
- Fastened with screws.

Supplied:

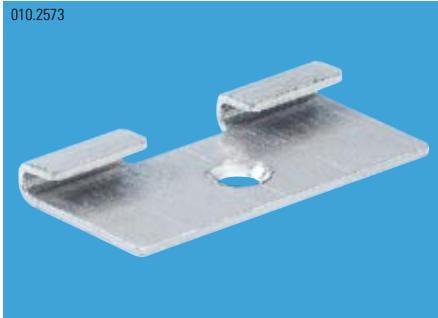
- FLEXkanal adapter
- 2 strain relief brackets
- 4 screws KA 30x10 mm

anthracite

10

R307476

010.2573



FLEXkanal Support,

- The FLEXkanal is hooked behind the fastening brackets.
- Fastened with countersunk screws.

aluminum

10

R307696

010.2572



FLEXkanal Adhesive Tape,

Supplied:

- Both-sides adhesive tape.

15x25 mm

10

R307697



Features

- Excess cable storage, mounted underneath the desk
- Capacity for up to 6 m of data cable and up to 3 m of power cable
- Can be stuck on or screwed to the desk

Ordering Information

Description

PU

Part Number



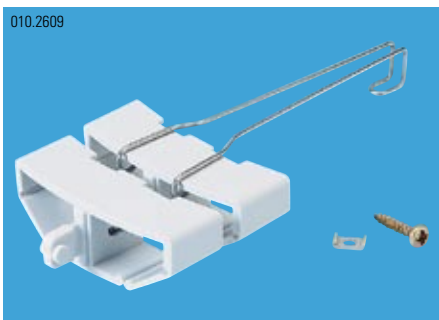
Cable Management Panel,

- Supplied:
- Aluminum panel
 - 10 patching brackets
 - 4 holders
 - 4 screws
 - 20 cm adhesive tape

400x200 mm, aluminum

1

R307702



FLEXkanal Suspender for CMP

- FLEXkanal suspender providing a link to the cable management panel.
- Can also be screwed on underneath the desk.

- Supplied:
- Suspender
 - Bracket
 - Fastening screw

10

R307694

Power Integration
DESKbox, empty and assembled



Features

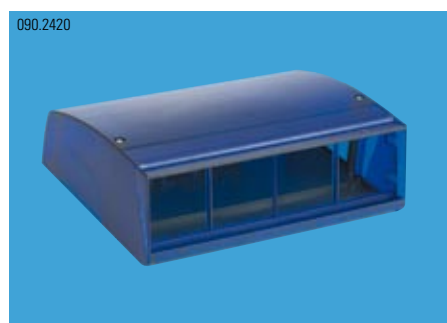
- Ideal for use at the workplace or as connection point in double floors
- Double cable strain relief provided by FLEXkanal holder
- Accepted power outlets: Schuko, type 13, Belgian/French and British
- Accepted data communication components: mounting plate for connection module RJ45, SC-RJ and E-2000TM Compact
- Accepted multimedia components: Chinch, VGA 15-pin, USB"A"
- Mounting plate features R&M Smartholes for the R&M security system
- All boxes come equipped, wired and connector-ready on request

Ordering Information

Description

PU

Part Number



090.2420

DESKbox, empty, 4x 45x45 mm,

Supplied:

- Box, empty, ready to be fitted with 4 devices (45x45 mm)
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

clear (transparent)

1

R307791

blue (transparent)

1

R307792

green (transparent)

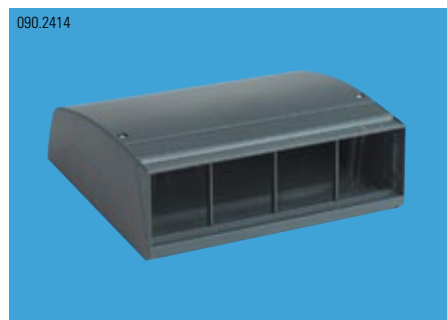
1

R307793

orange (transparent)

1

R307794



090.2414

DESKbox, empty, 4x 45x45 mm,

Supplied:

- Box, empty, ready to be fitted with 4 devices (45x45 mm)
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

anthracite

1

R309571

light gray

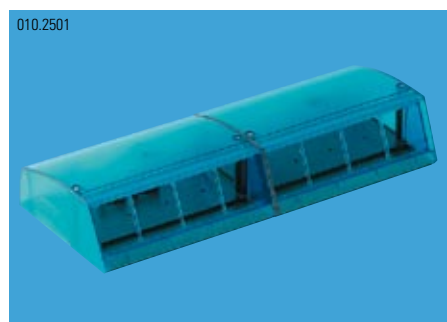
1

R313972

pure white

1

R313971



010.2501

DESKbox, empty, 8x 45x45 mm,

Supplied:

- Box, empty, ready to be fitted with 8 devices (45x45 mm)
- Linking bottom plate, metal
- 8 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

clear (transparent)

1

R307797

blue (transparent)

1

R307798

green (transparent)

1

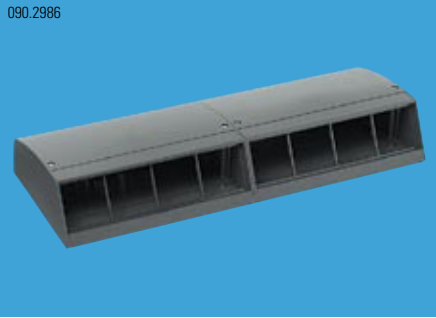
R307799

orange (transparent)

1

R307800

090.2986



DESKbox, empty, 8x 45x45 mm,

Supplied:

- Box, empty, ready to be fitted with 8 devices (45x45 mm)
- Linking bottom plate, metal
- 8 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

anthracite
light gray
pure white

1	R309709
1	R314319
1	R314320

010.2521



DESKbox, fully populated, 4x Schuko/white,

Supplied:

- Box, empty
- Assembled with 4 Schuko sockets
- 4 plastic base units
- Cable entry at the rear
- FLEXkanal holder featuring double strain relief

clear (transparent)
blue (transparent)
green (transparent)
orange (transparent)

1	R307801
1	R307802
1	R307803
1	R307804

010.2525



DESKbox, partly populated, 3x Schuko/white,
- 2x RJ45/white,

Supplied:

- Box, empty
- Assembled with 3 Schuko sockets/white
- Assembled with 1 faceplate/white for 2 RJ45 modules incl. single support plate (without modules)
- 4 plastic base units
- Cable entry at the rear
- FLEXkanal holder featuring double strain relief

clear (transparent)
blue (transparent)
green (transparent)
orange (transparent)

1	R307787
1	R307788
1	R307789
1	R307790

Power Integration
DESKbox, empty and assembled



**DESKbox, partly populated, 2x Schuko/orange
 - 4x RJ45/white,**

- Supplied:
- Box, empty
 - Assembled with 2 Schuko sockets/orange
 - Assembled with 2 faceplates/white for 4 RJ45 modules incl. single support plate (without modules)
 - 4 plastic base units
 - Cable entry at the rear
 - FLEXkanal holder featuring double strain relief

clear (transparent)	1	R307805
blue (transparent)	1	R307806
green (transparent)	1	R307807
orange (transparent)	1	R307808



**DESKbox, partly populated, 4x Schuko/white
 - 2x Schuko/orange - 4x RJ45/white,**

- Supplied:
- Box, empty
 - Assembled with 4 Schuko sockets/white
 - Assembled with 2 Schuko sockets/orange
 - Assembled with 2 faceplates/white for 4 RJ45 modules incl. single support plate (without modules)
 - 8 plastic base units
 - Cable entry at the rear
 - FLEXkanal holder featuring double strain relief

clear (transparent)	1	R307971
blue (transparent)	1	R307973
green (transparent)	1	R307974
orange (transparent)	1	R307975

- i** On request equipped with:
- Schuko (white, black, orange)
 - T13 (white, black, orange)
 - Switch / Pushbutton (white, black)
 - USB, RGB and audio-video (white, black)

Matching Accessories							
090.2323		090.2096					
010.2575		090.2097					
Page CU 142/142		Page CU 143/143					



Features

- Available in various, stylish colors
- Zero-halogen plastic
- Available in differently equipped versions
- The outlets are wired and fitted with power cables
- Individual fittings on request

Ordering Information

Description

PU

Part Number



DESKbox, fully populated, 4x Schuko/white
- CO3p plug/5m,

Supplied:

- Box, empty
- Assembled with 4 Schuko sockets/white
- 230V power cable 3x1.5 mm², 5m, with CO3p plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

light gray
pure white

1
 1

R314434
 R314432



DESKbox, fully populated, 4x Schuko/black
- CO3p plug/5m,

Supplied:

- Box, empty
- Assembled with 4 Schuko sockets/black
- 230V power cable 3x1.5 mm², 5m, with CO3p plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

clear (transparent)
blue (transparent)
green (transparent)
orange (transparent)
anthracite

1
 1
 1
 1
 1

R314436
 R314437
 R314431
 R314433
 R314438

Power Integration
DESKbox, assembled, with power cable



DESKbox, partly populated, 3x Schuko/white
- 2x RJ45/white - C03p plug/5m,

Supplied:

- Box, empty
- Assembled with 3 Schuko sockets/white
- Assembled with 1 faceplate/white for 2 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with C03p plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

light gray	1	R314419
pure white	1	R314417



DESKbox, partly populated, 3x Schuko/black
- 2x RJ45/black - C03p plug/5m,

Supplied:

- Box, empty
- Assembled with 3 Schuko sockets/black
- Assembled with 1 faceplate/black for 2 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with C03p plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

clear (transparent)	1	R314420
blue (transparent)	1	R314422
green (transparent)	1	R314421
orange (transparent)	1	R314418
anthracite	1	R314423



DESKbox, partly populated, 2x Schuko/white
- 4x RJ45/white - C03p plug/5m,

Supplied:

- Box, empty
- Assembled with 2 Schuko sockets/white
- Assembled with 2 faceplates/white for 4 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with C03p plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

light gray	1	R314406
pure white	1	R314404



**DESKbox, partly populated, 2x Schuko/black
 - 4x RJ45/black - CO3p plug/5m,**

- Supplied:
- Box, empty
 - Assembled with 2 Schuko sockets/black
 - Assembled with 2 faceplates/black for 4 RJ45 modules incl. single support plate (without modules)
 - 230V power cable 3x1.5 mm², 5m, with CO3p plug
 - Wired to clamp 5x2.5 mm²
 - 4 plastic base units
 - Cable entry at the back
 - FLEXkanal holder featuring double strain relief

clear (transparent)	1	R314407
blue (transparent)	1	R314409
green (transparent)	1	R314408
orange (transparent)	1	R314405
anthracite	1	R314410



**DESKbox, fully populated, 4x Schuko/white
 - Schuko plug/5m,**

- Supplied:
- Box, empty
 - Assembled with 4 Schuko sockets/white
 - 230V power cable 3x1.5 mm², 5m, with Schuko plug
 - Wired to clamp 5x2.5 mm²
 - 4 plastic base units
 - Cable entry at the back
 - FLEXkanal holder featuring double strain relief

light gray	1	R314445
pure white	1	R314444



**DESKbox, fully populated, 4x Schuko/black
 - Schuko plug/5m,**

- Supplied:
- Box, empty
 - Assembled with 4 Schuko sockets/black
 - 230V power cable 3x1.5 mm², 5m, with Schuko plug
 - Wired to clamp 5x2.5 mm²
 - 4 plastic base units
 - Cable entry at the back
 - FLEXkanal holder featuring double strain relief

clear (transparent)	1	R314442
blue (transparent)	1	R314441
green (transparent)	1	R314440
orange (transparent)	1	R314439
anthracite	1	R314443

Power Integration
DESKbox, assembled, with power cable



DESKbox, partly populated, 3x Schuko/white
- 2x RJ45/white - Schuko plug/5m,

Supplied:

- Box, empty
- Assembled with 3 Schuko sockets/white
- Assembled with 1 faceplate/white for 2 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with Schuko plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

light gray
pure white

1 R314427
 1 R314429



DESKbox, partly populated, 3x Schuko/black
- 2x RJ45/black - Schuko plug/5m,

Supplied:

- Box, empty
- Assembled with 3 Schuko sockets/black
- Assembled with 1 faceplate/black for 2 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with Schuko plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

clear (transparent)
blue (transparent)
green (transparent)
orange (transparent)
anthracite

1 R314426
 1 R314424
 1 R314425
 1 R314428
 1 R314430



DESKbox, partly populated, 2x Schuko/white
- 4x RJ45/white - Schuko plug/5m,

Supplied:

- Box, empty
- Assembled with 2 Schuko sockets/white
- Assembled with 2 faceplates/white for 4 RJ45 modules incl. single support plate (without modules)
- 230V power cable 3x1.5 mm², 5m, with Schuko plug
- Wired to clamp 5x2.5 mm²
- 4 plastic base units
- Cable entry at the back
- FLEXkanal holder featuring double strain relief

light gray
pure white

1 R314413
 1 R314411



**DESKbox, partly populated, 2x Schuko/black
 - 4x RJ45/black - Schuko plug/5m,**

- Supplied:
- Box, empty
 - Assembled with 2 Schuko sockets/black
 - Assembled with 2 faceplates/black for 4 RJ45 modules incl. single support plate (without modules)
 - 230V power cable 3x1.5 mm², 5m, with Schuko plug
 - Wired to clamp 5x2.5 mm²
 - 4 plastic base units
 - Cable entry at the back
 - FLEXkanal holder featuring double strain relief

clear (transparent)	1	R314415
blue (transparent)	1	R314416
green (transparent)	1	R314403
orange (transparent)	1	R314412
anthracite	1	R314414

- i** On request equipped with:
- Schuko (white, black, orange)
 - T13 (white, black, orange)
 - Switch / Pushbutton (white, black)
 - USB, RGB and audio-video (white, black)

Matching Modules and Accessories							
Page CU 33/33	Page CU 131/131	Page CU 131/142	Page CU 193/187				

**Power Integration
DESKbox Accessories**



Ordering Information

Description

PU

Part Number



Mounting Plate, 22.5x45,

- Dimensions: 22.5 x 45 mm
- Supplied:
 - Faceplate 22.5x45 mm, flat
 - Module holder for one RJ45 connection module

1x1 Port, white
1x1 Port, black

10
10

R307835
R307837



Mounting Plate, 45x45,

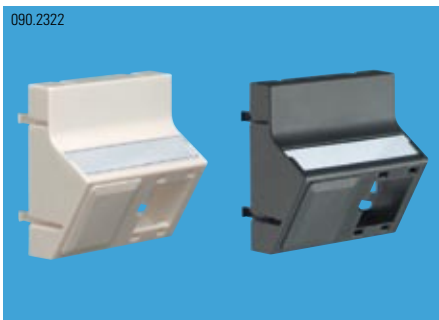
- Plastic: PC + ABS
- Supplied:
 - Double mounting plate 45x45 mm, flat, for holding two RJ45 connection modules
 - Blind cover (when used as 1-port outlet)
 - Label strips, blank

2x1 Port, pure white
2x1 Port, jet black

10
10

R313330
R313333

i Suitable for RJ45 connection modules and FO connectors with support plates.



Angled Mounting Plate, 45x45,

- Plastic: PC + ABS
- Supplied:
 - Double mounting plate 45x45mm with angled exit, for holding two RJ45 connection modules
 - Blind cover (when used as 1-port outlet)
 - Label strips, blank

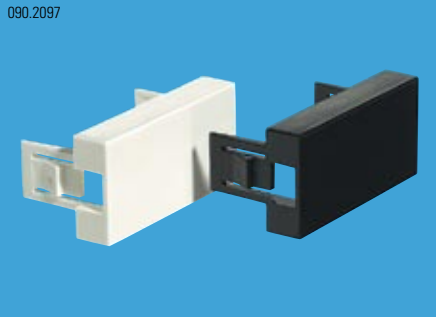
2x1 Port, pure white
2x1 Port, jet black

10
10

R313332
R313331

i Suitable for RJ45 connection modules and FO connectors with support plates.

090.2097



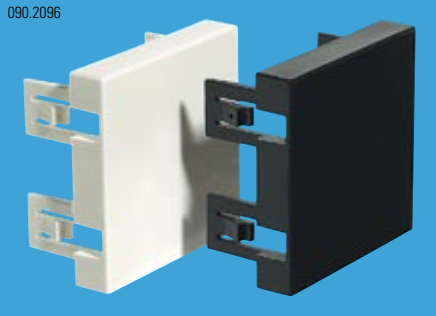
Faceplate Blind, 22.5x45,
– Dimensions: 22.5 x 45 mm

white
black

1
1

R307961
R309169

090.2096



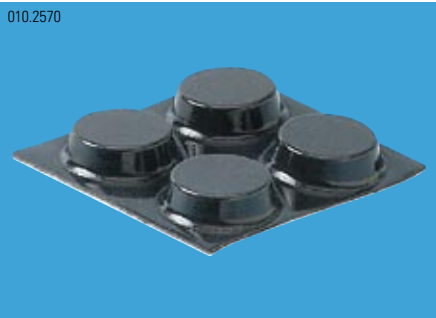
Faceplate Blind, 45x45,
– Dimensions: 45 x 45 mm

white
black

1
1

R307960
R309170

010.2570



Plastic Base, adhesive,
– For a firm grip of the boxes on smooth surfaces.

Plastic Base, adhesive, qty 4

1

R307786

090.2378



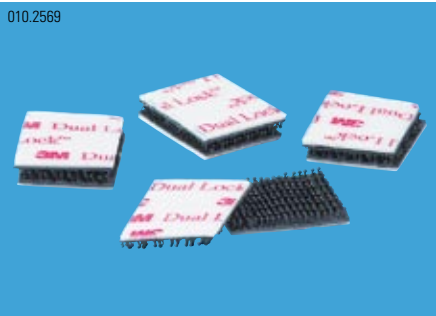
Stick-on Mounting Pad
– Protecting the boxes from sliding on smooth surfaces.
– Can be used up to 10 times, leaving no adhesive traces.
Supplied:
– 4 stick-on mounting pads of two different sizes
– Instructions of use

Stick-On Mounting Pad

1

R313168

010.2569






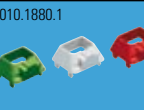











3M Dual Lock,
– For fastening the boxes - on or underneath the work desk.

qty 2, 25x20 mm

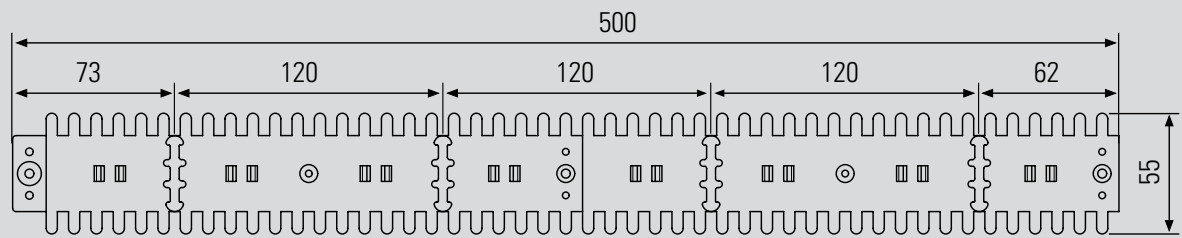
1

R307785

Matching Modules and Accessories							
 010.2858	 010.2857	 010.2859	 010.1885.1	 020.0975	 010.1880.1	 010.2134	 090.2344
 010.2860	 090.2213	 020.0700	 010.2982	 020.0976	 010.3088	 010.0934	
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2 aligned cable supports

010.2958



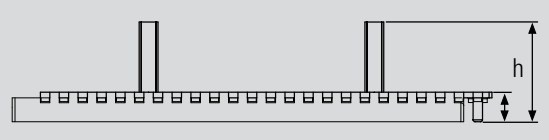
Cable support, flat

010.2960

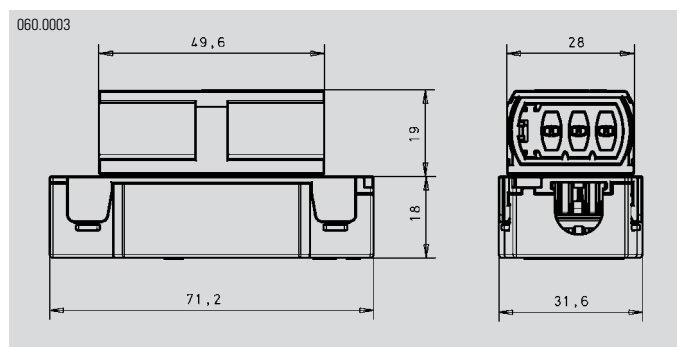


Cable support, raised

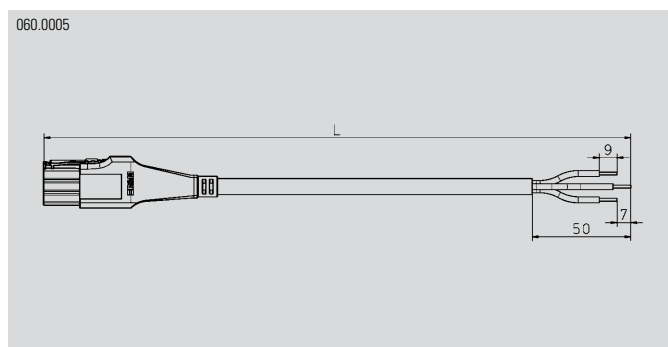
010.2959



Dimensions C03p 3-pole Adapter



Dimensions C03p 3-pole Power Cable



Technical data C03p adapter 3x1.5-2.5/S

General characteristics

Characteristic	Value	Standard
Approvals / test compliant with	SEV, VDE, ÖVE, KEMA	IEC/EN 61 984, IEC/EN 60 998-2-3
Protection class	IP 20	IEC 60 529

Electrical characteristics

Nominal voltage	AC 250 V	
Nominal current	16 A	
Surge voltage	4 kV	
Pole count	3-pole (L1,N,PE)	
Dielectric strength (VAC 50Hz/60s)	≥ 2500 V	
Insulation resistance (when new / under climate)	≥ 10E6 MΩ / ≥ 10E4 MΩ	DIN 40 040
Pollution degree	3	IEC 60 644-1

Characteristics adapter

Housing

Characteristic	Value	Standard
Color	anthracite gray	
Size	71.2 x 31.6 x 37 mm	L x B x H
Number of wirings	20	
Jacket diameter	7.0 - 10.4 mm	

Connecting conductor

Characteristic	Value	Standard
Conductor type	solid wire	
Conductor profile	1.5 - 2.5 mm ²	
Insulation diameter	2.6 - 3.6 mm	

Material

Characteristic	Value	Standard
Housing	polyamide	
Wiring cover and adapter hood	polycarbonate	
IDC* adapter contact	Copper alloy, tin-coated	
Fire protection	zero-halogen	
Flammability	class V-0	UL 94

* IDC = Insulation Displacement Contact

Technical data C03p power cable 3x1.5 mm²

Characteristics connector molded

Characteristic	Value	Standard
Color connector molded	anthracite gray	
Color cable	black	
Size	88 x 14 x 25.5 mm	L x W x H
Protection class	IP 20	IEC 60 529

Connecting conductor

Characteristic	Value	Standard
Conductor type	stranded wire (flexible strands)	
Conductor profile	1.5 mm ²	
Conductor ends	ultrasound sealed	

Power cable

Characteristic	Value	Standard
Standard lengths (L)	0.5, 1.0, 2.0, 3.0, 5.0, 8.0 m	

Material

Connector molded

Characteristic	Value	Standard
Connector housing	polyamide	
Connector insert	polyamide	
Crimp contact	copper alloy, tin-coated	
Fire protection	zero-halogen	
Flammability	class V-0	UL 94

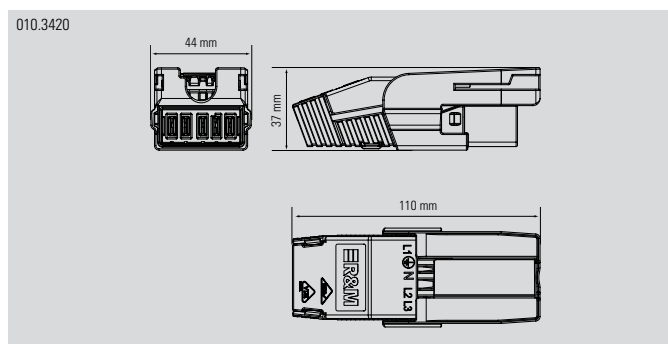
Cable

Characteristic	Value	Standard
Cable	PVC or PVC zero-halogen	

Power Integration
Techn. Data C05p 5-pole Cable Outlet



Dimensions C05p Adapter



Technical data C05p round cable adapter 5x1.5-2.5/r

General characteristics

Characteristic	Value	Standard
Approvals / tests compliant with	SEV, VDE Reg.-No. B629	IEC/EN 61984, IEC/EN 60998-2-3
Protection class	IP 20	IEC 60 529

Electrical characteristics

Nominal voltage	AC 400 V / 250 V	
Nominal current	16 A	
Surge voltage	4 kV	
Pole count	5-pole (3L + N + PE)	
Dielectric strength (VAC 50Hz/60s)	≥ 2500 V	
Insulation resistance (when new / under climate)	≥ 10E6 MΩ / ≥ 10E4 MΩ	DIN 40 040
Pollution degree	2	IEC 60 644-1

Characteristics adapter

Housing

Characteristic	Value	Standard
Color	anthracite gray	
Size	110 x 44 x 37 mm	L x B x H
Number of wirings	20	
Jacket diameter	7.0 - 10.4 mm	

Connecting conductor

Characteristic	Value	Standard
Conductor type	rigid wire	
Conductor profile	1.5 - 2.5 mm ²	
Insulation diameter	2.6 - 3.6 mm	

Material

Characteristic	Value	Standard
Housing	polyamide	
Wiring cover and adapter hood	polycarbonate	
IDC* adapter contact	copper alloy, tin-coated	
Fire protection	zero-halogen	
Flammability	class V-0	UL 94

* IDC = Insulation Displacement Contact

Technical data C05p connector 3-5x1.5-2.5 mm²

Characteristics C05p connector

Characteristic	Value	Standard
Color:		
- connector housing	anthracite gray	
- connector over	anthracite gray	
- housing connector pin L1	red-brown	
- housing connector pin L2	black	
- housing connector pin L3	light gray	
- housing connector pin N	light gray	
- housing connector pin PE	yellow/green	
Size	86 x 41 x 21 mm	L x W x D
Protection class	IP 20	IEC 60 529

Connecting conductor

Characteristic	Value	Standard
Conductor type	stranded wire (flexible strands)	
Conductor profile connector pin	1.5 mm ² and 2.5 mm ²	
Insulation diameter conductor connector pin		
- 1.5 mm ²	≤ 3.1 mm	
- 2.5 mm ²	≤ 3.9 mm	

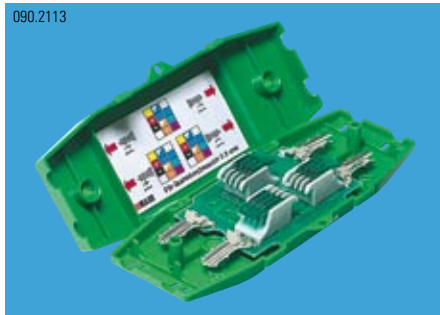
Power cable

Characteristic	Value	Standard
Cable	PVC or PVC zero-halogen	<HAR> flexible
Cable jacket diameter	9.3 - 13.9 mm	

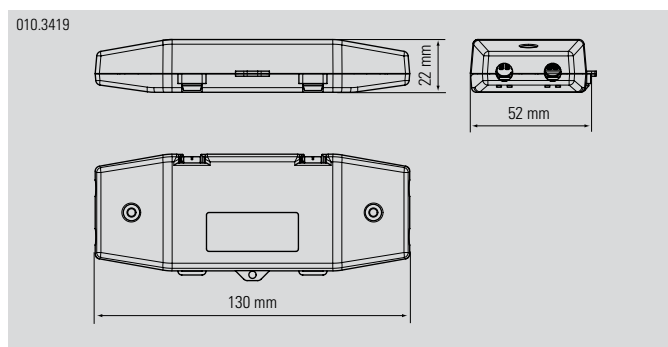
Material

Characteristic	Value	Standard
Connector material		
- connector housing	PC	
- connector cover	PC	
- housing connector pins L1, L2, L3, N, PE	PA66/6	
- piercing contact	copper alloy, tin-coated	
Fire protection	zero-halogen	
Flammability	class V-0	UL 94

**Power Integration
Techn. Data Bus Outlet**



Dimensions Bus Outlet



Technical data Bus Outlet

Housing

Characteristic	Value	Standard
Color	green	
Size	130 x 46 x 22 mm	
Material	ABS zero-halogen	
Protection class	IP 20	

PCB board

Characteristic	Value	Standard
Nominal voltage	50 V AC	
Nominal current	3 A	
Dielectric strength	1000 V	
Material shield brackets	bronze, tin-coated	

PCB terminal blocks

Mechanical data

Characteristic	Value	Standard
IDC contact	compliant with	IEC 60352-4
Repeated wiring with \geq wire \emptyset	> 20	IEC 60352-4
Conductor type	solid wire	
Conductor \emptyset (type "easy-2" 0.35-0.65)	0.35 mm - 0.65 mm	AWG22 - AWG27
Conductor \emptyset (type "easy-2" 0.80)	0.80 mm	AWG20
Insulation \emptyset	0.70 mm - 1.6 mm	

Material

Characteristic	Value	Standard
Material connecting body	polycarbonate	
Fire protection	zero-halogen	
Flammability	class V-0	UL 94
IDC contact material	spring bronze, tin coated	

Electrical characteristics

Characteristic	Value	Standard
Dielectric strength	> 1000 V (eff)	IEC 60512-2
Insulation resistance	> 500 M Ω (500 V DC)	IEC 60512-2
Contact resistance	< 5 m Ω	IEC 60352-3



Products	Page	Products	Page
1 FM Global Outlets, 88x88 mm	CU 153	6 DIN Outlets	CU 158
2 SM Global Outlets, 80x80 mm	CU 154	7 DK Mounting Units	CU 159
3 DM Global Outlets, 80x86 mm	CU 155	8 BS Faceplates, 86x86 mm	CU 161
4 DM Outlets, Ø-62.5 mm	CU 156	9 Flap Jack Module Holder (Type 6C)	CU 162
5 503 Outlets	CU 157		

Copper Outlets



Products

Products	Page
1 Shuttered Fascia Module Holder, 25x50 mm	CU 163
2 Mounting Plates 45x45 mm	CU 164
3 Mini Surface-Mount Box	CU 165
4 6x1 Port Compact Box	CU 166
5 US Faceplates	CU 167

Products

Products	Page
6 Outlets, 6x2x1 Port	CU 169
7 Accessories	CU 170
8 Suppliers of Compatible Faceplates	CU 173
9 Techn. Data Copper Outlets	CU 178



Features

- Suitable for flush (FM) and duct-mounted (DM) installations
- For use with cover frames and duct covers of Ø 70 mm in diameter or 70x70 mm cutouts
- Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks
- Recommended depth for backboxes and floorboxes > 70 mm
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



FM Global Outlet, 88x88,

- Plastic: PC + ASA
- Supplied:
 - Cover frame 88x88 mm, pure white
 - 4-part faceplate 60x60 mm
 - M3x12 screws
 - Mounting plate, steel
 - Label strips, blank

4x1 Port, pure white

10

R305150

i Suitable for RJ45 special connection module.



FM Global Outlet, 88x88,

- Plastic: PC + ABS
- Supplied:
 - Cover frame 88x88 mm
 - 2-part faceplate 60x60 mm
 - M3x12 screws
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, steel
 - Label strips, blank

2x1 Port, pure white

10

R310788

2x1 Port, oyster white

10

R310789

i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

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Copper Outlets
SM Global Outlets, 80x80 mm



Features

- Suitable for surface-mounted (SM) installations on walls and in ducts
- Housing plus wallplate measures 80x80x67.5 mm
- Cable entry at the side or the back
- For use with cover frames and duct covers of Ø 60 mm in diameter or 56x56 mm cutouts
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



SM Global Outlet, 80x80,

- Plastic: PC + ABS
- Supplied:
 - Cover frame 80x80 mm
 - 2-part faceplate 60x60 mm
 - M3x12 screws
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, steel
 - Label strips, blank

2x1 Port, pure white

10

R310786



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>090.2336</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>090.2335</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>
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Features

- Suitable for duct-mounted (DM) installations (metal and plastic)
- For use with duct covers of ≥ 80 mm
- Suitable for backboxes and floorbox module holders of $\varnothing 60$ mm in diameter or 56x56 mm cutouts
- Recommended depth for backboxes and floorboxes > 70 mm
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



DM Global Outlet, 80x86,

- Plastic: PC + ASA
- Supplied:
 - Cover frame 80x86 mm
 - 4-part faceplate 60x60 mm
 - M3x12 screws
 - Mounting plate, steel
 - Label strips, blank

4x1 Port, pure white

10

R305151

i Suitable for RJ45 special connection module.



DM Global Outlet, 80x86,

- Plastic: PC + ABS
- Supplied:
 - Cover frame 80x86 mm
 - 2-part faceplate 60x60 mm
 - M3x12 screws
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, steel
 - Label strips, blank

2x1 Port, pure white

10

R310790

2x1 Port, oyster white

10

R310787

i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

<p>010.2023</p>	<p>010.2022.1</p>	<p>010.2016</p>	<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>090.2335</p>	<p>010.2982</p>
<p>010.2017</p>	<p>090.2317</p>	<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>090.2336</p>	<p>010.1885.1</p>	<p>020.0975</p>
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Copper Outlets
DM Outlets, Ø-62.5 mm



Features

- Suitable for duct-mounted (DM) installations (metal and plastic)
- For use with cover frames or duct covers of Ø 64 mm
- Suitable for backboxes and floorbox module holders of mounting tracks of Ø 60 mm or mounting distances of 56x56 mm
- Recommended depth for backboxes and floorboxes > 70 mm
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



Duct Outlet, Ø-62.5,

- Plastic: PC + ASA
- Supplied:
 - Cover ring
 - 2-part faceplate Ø 62.5 mm
 - M3x12 screws
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, 70x70 mm, steel
 - Label strips, blank

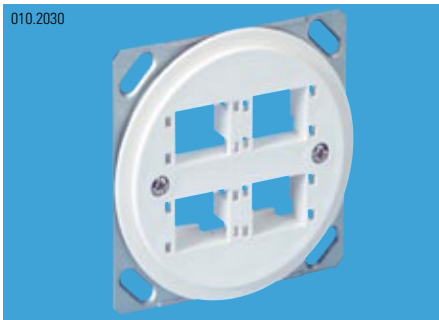
2x1 Port, pure white

10

R925781



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.



Duct Outlet, Ø-62.5,

- Plastic: PC + ASA
- Supplied:
 - Cover ring
 - 4-part faceplate Ø 62.5 mm
 - M3x12 screws
 - Mounting plate, 70x70 mm, steel

4x1 Port, pure white

10

R305012



Suitable for RJ45 special connection module.

Matching Modules and Accessories							
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Features

- Suitable for flush installations on walls, in ducts (metal and plastic) and in service poles
- For backboxes of 83.5 mm in horizontal mounting distance
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



503 Outlet, 118x72,

- Plastic: PC, PC + ABS
- Supplied:
 - Faceplate, type 503, holding 2x1 port
 - Hidden screws
 - Blind cover (when used as a 1-port outlet)
 - Label strips

2x1 Port, pure white

10

R925782

i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.



503 Outlet, 118x72,

- Plastic: PC, PC + ABS
- Supplied:
 - Faceplate, type 503, for RJ45 snap-in connection modules
 - Hidden screws
 - 2 blind covers (when used as a 2-port outlet)
 - Label strips

4x1 Port, pure white

10

R304275

i Suitable for RJ45 snap-in connection module.

Matching Modules and Accessories

010.2858 	010.2857 	010.2859 	090.2336 	010.2023.1 	010.2017.1 	010.2016.1 	010.2982
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**Copper Outlets
DIN Outlets**



Features

- Suitable for flush (FM), duct-mounted (DM), floorbox and service poles installations
- The central plate provides compatibility with most German switch programs
- For cover frames of 80x80 mm with 50x50 mm DIN cutouts
- Suitable for backboxes and floorbox module holders of Ø 60 mm mounting tracks
- Recommended depth for backboxes and floorboxes > 70 mm
- Plastic halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



Outlet, 50x50,

- Plastic: ASA
- Supplied:
 - 2-part faceplate 50x50 mm, incl. fastening screws
 - RJ45 module holder, 2x1 port
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, 70x70 mm, steel
 - Label strips, blank

2x1 Port, pure white

10

R306010

2x1 Port, oyster white

10

R306008



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.



Outlet, 80x80,

- Plastic: ASA
- Supplied:
 - Cover frame 80x80 mm
 - 2-part faceplate 50x50 mm, incl. fastening screws
 - RJ45 module holder, 2x1 port
 - Blind cover (when used as a 1-port outlet)
 - Mounting plate, 70x70 mm, steel
 - Label strips, blank

2x1 Port, pure white

10

R306006

2x1 Port, oyster white

10

R306004



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories							
<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>	<p>010.0969</p>
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>	
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TOPI014



Features

- Suitable for installations in ducts and combined with a mounting frame also on walls
- Capacity for two RJ45 connection modules
- Supplied with blind covers for unused ports
- Clear-cut and smooth appearance
- Ready for the R&M security system
- Including stick-on label strips
- Recommended depth for backboxes and floorboxes > 70 mm

Ordering Information

Description

PU

Part Number

010.0917



DK Mounting Unit,

- Plastic: ABS
- Supplied:
 - DK mounting unit, including mounting clamp and rubber band
 - Two RJ45 module holders
 - DK cover

2x1 Port, pure white

10

R925628

2x1 Port, light gray

10

R925689

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.

010.1273



DK Mounting Unit, Snap-on,

- Suitable for CLIC'LINE protective housings by the LK company.
- Plastic: PC + ABS
- Supplied:
 - Clic'line mounting unit
 - Two RJ45 module holders

2x1 Port, pure white

10

R300412

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.

010.0918



Blind Cover for DK Mounting Units,

- Plastic: ABS

pure white

10















R925631

light gray

10

R925653

**Copper Outlets
DK Mounting Units**

Matching Modules and Accessories							
 	 	 	 	 	 	 	
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010.1005



Features

- Suitable for flush mounting and combined with a mounting frame also for surface mounting
- Minimum mounting depth required for connections modules is only 10.5 mm
- Angled RJ45 outlet for maximum cable protection
- Ready for the R&M security system
- Including label window and exchangeable label strips
- UV-resistant material used
- Recommended depth for backboxes and floorboxes > 70 mm

Ordering Information

Description

PU

Part Number

020.0994



BS Faceplate, 86x86,

- Plastic: PC + ABS
- Supplied:
- Faceplate 86x86 mm for 4 RJ45 ports, including fastening screws
- Label strips

4x1 Port, pure white

10

R925950

i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

010.2849



BS Faceplate, 86x86,

- Plastic: PC + ABS
- Supplied:
- Faceplate 86x86 mm, including fastening screws
- Module holder 2xRJ45
- Blind cover (when used as a 1-port outlet)
- Label strips

2x1 Port, pure white

10

R925718

i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

010.2860	090.2213	020.0700	090.2335	010.2982	020.0976	010.3080	010.0934
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**Copper Outlets
Flap Jack Module Holder (Type 6C)**



Features

- Suitable for flush and wall mounting
- Matching standard British cutout dimensions (6C)
- The horizontal design requires only half the space for RJ45 modules compared to other solutions
- The angled entry (45°) provides maximum cable protection
- Halogen-free in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



Module Holder, Flap Jack (Type 6C),

- Plastic: PC
- Supplied:
 - Flap Jack Module Holder
 - Instructions manual

1x1 Port, pure white

20

R303155

1x1 Port, jet black

20

R305702

i Suitable for RJ45/u special connection modules and Flap Jack connection modules.



Mounting Plate, Flap Jack, 86x86,

- Plastic: PC

2x1 Port, pure white

20

R303154

Matching Modules and Accessories							
<p>010.2033</p>	<p>010.2022.1</p>	<p>010.2016</p>					
<p>010.2017</p>	<p>090.2317</p>						
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Features

- Suitable for flush installations and combined with a mounting frame also for surface mounting
- Wall plate dimensions 86x86 mm featuring a 50x50 mm cutout for 2 module holders
- The 2-port outlet can be turned into a 1-port outlet by using a blind cover
- Recommended depth for backboxes and floorboxes > 70 mm

Ordering Information

Description

PU

Part Number



Mounting Plate, Shuttered Fascia, 25x50,

– Plastic: ABS

1x1 Port, pure white

20

R925842

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.



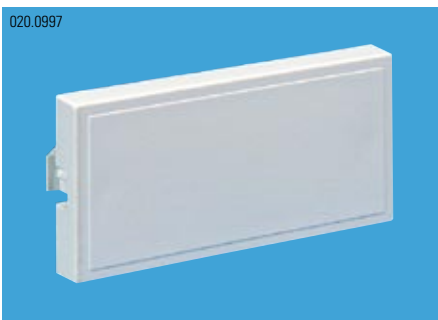
Shuttered Fascia, 86x86 (50x50 cutout),

– Plastic: ABS

2x1 Port, pure white

20

R925895



Blind Cover, Fascia, 25x50,

– Plastic: ABS

1x1 Port, pure white

40

R925897

Matching Modules and Accessories

<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>	
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>	
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171	

**Copper Outlets
Mounting Plates 45x45 mm**



Features

- These mounting plates require a standard cutout of 45x45 mm
- Ready for the R&M security system
- Angled RJ45 entry for maximum cable protection
- Recommended depth for backboxes and floorboxes > 70 mm

Ordering Information

Description

PU

Part Number



Angled Mounting Plate, 45x45,

- Plastic: PC + ABS
- Supplied:
 - Double mounting plate 45x45 mm with angled exit, for holding two RJ45 connection modules
 - Blind cover (when used as 1-port outlet)
 - Label strips, blank

2x1 Port, pure white

10

R313332

2x1 Port, jet black

10

R313331



Suitable for RJ45 connection modules and FO connectors with support plates.



Mounting Plate, 45x45,

- Plastic: PC + ABS
- Supplied:
 - Double mounting plate 45x45 mm, flat, for holding two RJ45 connection modules
 - Blind cover (when used as 1-port outlet)
 - Label strips, blank

2x1 Port, pure white

10

R313330

2x1 Port, jet black

10

R313333



Suitable for RJ45 connection modules and FO connectors with support plates.

Matching Modules and Accessories							
<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>	<p>090.2344</p>
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>	
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171	Page CU 171



Features

- Ideal for modifications on existing or future installations
- Two-part unit featuring a housing bottom and top part
- Cable entry at the bottom or at the back where a break-out flap is provided
- Ready for the R&M security system

Ordering Information

Description

PU

Part Number



090.2093

Mini Surface Mount Box, 24x29x58,

- Supplied:
- Housing bottom part
 - Housing top part

1x1 Port, cream

1

R303901

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.



010.0938

Mini Surface Mount Box, 34x53x60,

- Plastic: PC + ASA
- Supplied:
- Housing bottom part
 - Housing top part
 - Blind cover (when used as a 1-port outlet)
 - Label strips, blank
 - Installation manual

2x1 Port, pure white

10

R925728

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.



010.1903

Mini Surface Mount Box, RJ11,

- Supplied:
- Housing bottom part
 - Housing top part
 - RJ11 module (4-pole)

1x1 Port, cream

1

R303903

Matching Modules and Accessories

<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>	<p>010.0969</p>
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>	
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171	Page CU 170

**Copper Outlets
6x1 Port Compact Box**



Features

- Suitable for surface mounted installations or as consolidation point in hollow floors
- Multifunctional unit
- Installation cables up to Cat.7 can be used
- Bottom part features integral strain relief lugs
- Cover features cable entry break-out points at the side and the back
- Accepts fiberoptic components
- Fire classification UL94: V-0

Ordering Information

Description

PU

Part Number



Compact Housing, 220x40x110,

- Plastic: PC + ABS
- Supplied:
- Bottom part
- Top part
- 3 module holders 2xRJ45
- 6 cable ties
- 2 fastening screws

6x1 Port, pure white

1

R308971



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

 010.2858	 010.2857	 010.2859	 090.2336	 010.2411	 010.2982	 020.0976	 010.3088
 010.2860	 090.2213	 020.0700	 090.2335	 010.1885.1	 020.0975	 010.1880.1	 010.2134
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 98/99	Page CU 39/193	Page CU 194/197	Page CU 197/200	Page CU 200/205



Features

- Suitable for flush mounting as well as duct-mounted installations (metal and plastic)
- Surface mounting compliant with the US mounting box
- Dimensions for backboxes and floorbox module holders of 83.5 mm (3.29 inch) mounting tracks
- Angled RJ45 entry for maximum cable protection
- Ready for the R&M security system
- Supplied with label windows plus exchangeable label strips
- Recommended depth for backboxes and floorboxes > 70 mm

Ordering Information	Description	PU	Part Number
	<p>US Style Faceplate, 72x117.5,</p> <ul style="list-style-type: none"> – Plastic: PC + ABS Supplied: – US style faceplate – Hidden screws – 2xRJ45 module holder – Blind cover (when used as a 1-port outlet) – Label strips, blank 	10	R925758
	<p>US Style Faceplate, 72x117.5,</p> <ul style="list-style-type: none"> – Plastic: PC, fiber glass reinforced Supplied: – US style faceplate – Fastening screws – Hidden screws – 6xRJ45 module holder – 2 label strips, blank 	10	R925822
	<p>Backbox for US Faceplates,</p> <ul style="list-style-type: none"> – Plastic: PC, fiber glass reinforced Supplied: – Base plate – Surface-mount housing 	10	R925824

2x1 Port, pure white

















i Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

6x1 Port, pure white

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.

pure white

**Copper Outlets
US Faceplates**

Matching Modules and Accessories							
 010.2858	 010.2857	 010.2859	 090.2336	 010.1885.1	 020.0975	 010.1880.1	 010.2134
 010.2860	 090.2213	 020.0700	 090.2335	 010.2982	 020.0976	 010.3080	 010.0934
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 98/99	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171



Features

- Suitable for flush-mounted installations or as surface-mounted outlets next to ducts
- Halogen-free plastic in acc. with DIN/VDE 0472/815

Ordering Information

Description

PU

Part Number



SM Outlet,

- Plastic: PC + ASA
- Supplied:
 - Wooden surface-mount frame, white lacquered
 - FM backbox
 - Fastening plate
 - 4 3x12 chipboard screws
 - Cover frame
 - 6 faceplates 60x60 mm
 - 6 holders RJ45 2x1-port

6x2x1 Port, pure white

1

R302388



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.



FM Outlet,

- Plastic: PC + ASA
- Supplied:
 - FM backbox
 - Fastening plate
 - 4 chipboard screws 3x12
 - Cover frame
 - 6 faceplates 60x60 mm
 - 6 holders RJ45 2x1-port

6x2x1 Port, pure white

1

R302387



Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.

Matching Modules and Accessories

<p>010.2858</p>	<p>010.2857</p>	<p>010.2859</p>	<p>090.2336</p>	<p>010.1885.1</p>	<p>020.0975</p>	<p>010.1880.1</p>	<p>010.2134</p>
<p>010.2860</p>	<p>090.2213</p>	<p>020.0700</p>	<p>090.2335</p>	<p>010.2982</p>	<p>020.0976</p>	<p>010.3088</p>	<p>010.0934</p>
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 98/99	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171

Copper Outlets Accessories

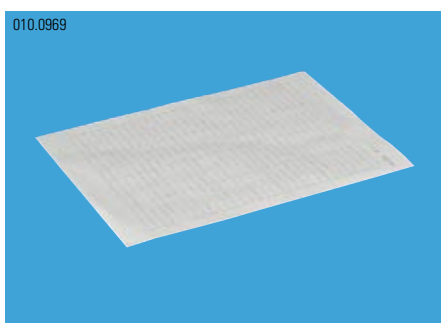


Ordering Information

Description

PU

Part Number



A4 Label Sheet,

Supplied:

- A4 sheet of 100 perforated label strips (blank)
- Paper thickness 0.15 mm

For labeling:

- FM Global outlets 88x88, 4x1-port
- DM Global outlets 80x86, 4x1-port
- DIN outlets 50x50, 2x1-port
- DIN outlets 80x80, 2x1-port
- Mini surface boxes, 2x1-port

100x 44.7x9.9 mm

100

R925759



A4 Label Sheet,

Supplied:

- A4 sheet of 48 perforated label strips (blank)
- Paper thickness 0.15 mm

For labeling:

- 503 outlets, 4x1-port
- US faceplates, 6x1-port

48x 70.3x9.7 mm

10

R300318



A4 Label Sheet,

Supplied:

- A4 sheet of 104 perforated label strips (blank)
- Paper thickness 0.15 mm

For labeling:

- FM Global outlets 88x88, 2x1-port
- SM Global outlets 80x80, 2x1-port
- DM Global outlets 80x86, 2x1-port

104x 50x9 mm

1

R312102



A4 Label Sheet,

- Supplied:
- A4 sheet of 84 perforated label strips (blank)
 - Paper thickness 0.15 mm

For labeling:

- DM outlets Ø 62.5, 2x1-port
- 503 outlets, 2x1-port
- BS faceplates, 2x1-port
- BS faceplates, 4x1-port
- US faceplates, 2x1-port
- FM and SM outlets, 6x2x1-port

84x 55.6x8.8 mm

1

R925702



A4 Label Sheet,

- Supplied:
- A4 sheet of 85 perforated label strips (blank)
 - Paper thickness 0.15 mm

For labeling:

- Mounting Plates 45x45

120x 42.5x8.1 mm

1

R313397



Blind Cover Universal,

- For covering one unused port on a connection module.
- Snapped-on instead of a coding system.

pure white

100

R925719



Adapter No. 1

- For use with different third-party modules.
- Can be fitted with the R&M special connection module.

20

R310694

Copper Outlets Accessories

010.2267



GOF Outlet Connection Module Holder with

– Color: white (RAL 9010)

2x ST, PhBr MM

1

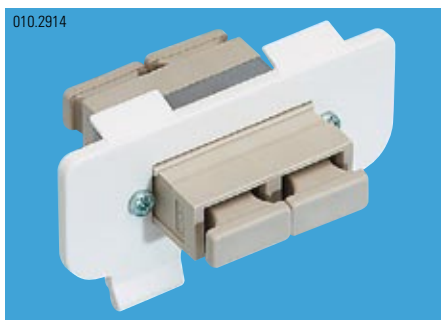
R308646

4x ST, PhBr MM

1

R308644

010.2914



GOF Outlet Connection Module Holder with

– Color: white (RAL 9010)

1x SC Duplex, PhBr MM

1

R308647

2x SC Duplex, PhBr MM

1

R308645



Get a free MS Word template at our website (www.rdm.com) for fast and professional labeling.

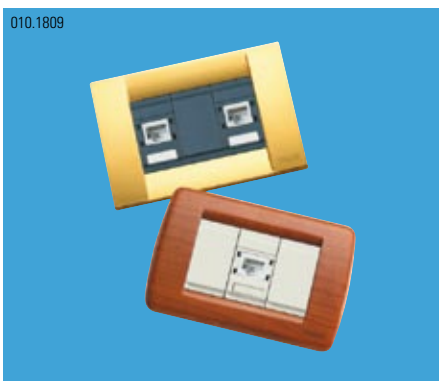
These manufacturers fulfill your design requests

Discover and use the diversity of switch and outlet programs of the following third-party suppliers. Whether your requirements are high-class design or special standards – combine the products from these manufacturers with the R&M connection solutions. It's always a good fit.

You find information on supplier compatible module holders and front plates at:

www.rdm.com/outlet_data_base

010.1809



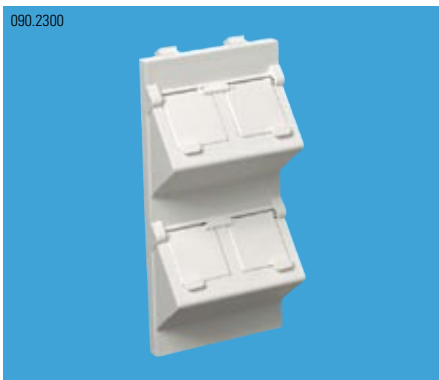
VIMAR

Imagination, easy operation and practical use characterize the product lines of VIMAR S.p.A. in Marostica (Italy) since it was established in 1945. VIMAR had become famous in the 50s with the pear-shaped light switch, which initially was manufactured completely by hand and the first protection systems for outlets, which protect people reliably against electric shocks. The company, with its 750 employees, still today bubbles with creativity. The colorful product series Idea represents this particularly well. With its replaceable, modular installation elements, Idea installations allow more than 200 functions in the areas of security, access control, controllers, multimedia and building technology.

Contact:

VIMAR S.p.A.
Viale Vicenza 14
ITA-36063 Marostica VI
Phone: 0039/0424 488 600
Fax: 0039/0424 488 188
Web: <http://www.vimar.it>

090.2300



Cimabox

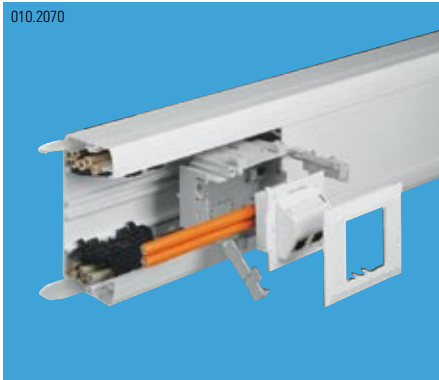
Since 1989 when Cimabox 2000, S.L. was established, the activities of the Spanish manufacturer are concentrated on manufacturing products for workstation cabling. The array of products ranges from surface-mounted outlets to installation units mounted flush to the floor surface (floorbox systems) and watertight floor boxes to power poles, which allow the customer to adapt the connection possibilities to the character of the building.

A feature of the product line is the Teleblock, a retractable table column. The materials used (PC-ABS, fire resistant and 100% halogen-free) as well as processes according to ISO 9001 guarantee a long-life cycle and the quality of the products.

Contact:

Cimabox
C/Carredera nº1, esquina C/Moli
Polígono Industrial Gran Roca
ESP-08107 Martorelles-Barcelona
Phone: 0034 93 345 33 50
Fax: 0034 93 345 36 08
Web: <http://www.cimabox.com>
E-mail: cimabox@cimabox.com

Copper Outlets Suppliers of Compatible Faceplates



Tehalit

The Hager group in Blieskaastel (Germany), has manufacturing facilities in eight countries for electrical engineering and installation technologies and combines renowned brands, such as Tehalit, under its roof. Innovative technologies, new materials and modern design are incorporated into development. Among the outstanding segments are counter and distribution systems, electrical engineering and building services management including EIB/KNX, protection and security solutions as well as complete installation raceways for homes and functional buildings as well as for industrial facilities.

Contact:

Hager Tehalit Vertriebs GmbH
Zum Gunterstal
DEU-66440 Blieskastel
Phone: 0049/06842 945-0
Fax: 0049/06842 945-5666
Web: <http://www.tehalit.com>
E-mail: info@hager.de



Busch-Jaeger Elektro GmbH

Busch-Jaeger Elektro GmbH in Lüdenscheid (Germany) is a market leader with more than 100 years of history in electric installation technology. The company belongs to the ABB group and employs approximately 1250 people in two German plants.

The product line ranges from complete electric installation programs with switches, outlets, special connectors, series installation devices, dimmers and motion detectors to high-tech electronic products such as the Busch Installationsbus, EIB and the Busch- Powernet. They provide energy optimization and convenient central controlling for electric consumers in the private and commercial sector. In total the product range incorporates 6000 electric installation products.

Contact:

Busch-Jaeger Elektro GmbH
P.O. Box
DEU-58505 Lüdenscheid
Web: <http://www.Busch-Jaeger.de>

Central Sales Service:

Phone: 0049/0180-5 66 99 00
Fax: 0049/0180-5 66 99 09

090.2302



PEHA

PEHA Paul Hochköpper GmbH & Co. KG in Lüdenscheid (Germany) a medium-sized company, rich in tradition, manufacturer of sophisticated electric installation technology was established in 1922. PEHA features a complete high-quality product line providing everything to professionals and users: attractive switch programs, future reliable building services management, contemporary communications technology, innovative radio communications solutions and customer-specific developments. PEHA programs are the result of a combination of technical perfection, premium and low maintenance materials, an emphatically linear design and timeless attractive colors.

Contact:

Paul Hochköpper GmbH & Co. KG
Gartenstrasse 49
DEU-58511 Lüdenscheid
Phone: 0049/02351 185-0
Fax: 0049/02351 276 66
Web: <http://www.peha.de>

090.2301



JUNG

The name JUNG has been a synonym for progress and success in electric installations for more than 90 years. Technical innovations, high quality standards and a sophisticated design determine the development of products and systems of the Albrecht Jung GmbH in Schalksmühle (Germany) and Lüden. Switches, outlets, dimmers, monitors, controls and electronic devices for a varied range of applications in building technology are included in the program, as are light, radio and blind management. Jung focuses on the high-tech electric installation of the future with the KNX/EIB system. Planners and architects require installations from one "source". JUNG provides solutions for all flush mounted and surface mounted series including waterproof products.

Contact:

ALBRECHT JUNG GMBH & CO. KG
Volmenstrasse 1
DEU-58579 Schalksmühle
Phone: 0049/02355 806-168 (Sales Support)
Fax: 0049/02355 806-189
Web: <http://www.jung.de>
E-mail: jung-info@t-online.de

Copper Outlets Suppliers of Compatible Faceplates

010.2092



Berker

The Gebr. Berker GmbH & Co. KG was founded in 1919 and is one of the leading manufacturers of high-performance electric installation systems. Berker's switch ranges with integral house electronics, the intelligent building services management system INSTABUS EIB or the FUNKBUS SYSTEM all offer fascinating solutions. From accentuated lighting to automatic shutter control, integration of heating control and building security, up to modern communications connection techniques, Berker's switch programmes allow most favourable and balanced interior design to the very last detail.

Contact:

Gebr. Berker GmbH & Co. KG
Klagebach 38
DEU-58579 Schalksmühle
Phone: 0049 (0)2355 905 610
Fax: 0049(0)2355 905 606
Web: <http://www.berker.de>
E-mail: info@berker.de

010.2844



ABB s.r.o., Elektro-Praga

The company ABB s.r.o., Elektro-Praga Jablonec nad Nisou can look back this year on the 135th anniversary of its foundation and the 10-year existence of the ABB brand on the Czech market. The company is part of the group of ABB electrical engineering companies in the Czech Republic and its products excel thanks to their high quality, technical advancement, and modern design. The core programme of ABB s.r.o., Elektro-Praga consists of products for indoor wiring, particularly switches and sockets that are assembled in the modern designs of the Classic, Tango, Element®, Time®, solo®, impuls, alpha nea®, and alpha exclusive® ranges. These ranges of newly developed designs accommodate the style and possibilities of all end users. The appliances can be used in a variety of interiors and surroundings, as well as in multiple frames, horizontal or upright. This range is well complemented by electronic instruments that both heighten comfort and contribute to energy savings. R&M Snap-In connection modules fit into data outlets of most product ranges. Recently an outlet for regular connection module was developed for Tango design with R&M Smartholes included to allow application of broad variety of matching accessories.

Contact:

ABB s.r.o., Elektro-Praga
Resslova 3
466 02 Jablonec nad Nisou
Czech Republic
Phone: 00420 483 364 111
Fax: 00420 483 312 059
Web: <http://www.abb-epj.cz>
E-mail: epj.jablonec@cz.abb.com

010.1720



Gira

Among the basic principles of Gira are integration, ingenuity in development and a clear commitment to modern design. The history of the company started in Wuppertal in 1905 with the utilization of a patent for tumbler switches. Today, the company is located in Radevormwald (Germany). In 1929, Gira brought the first double-lock switch onto the market and more than 50 years ago introduced the building block principle for light switches. The product range: light and automatic switches, monitors, intercoms, radio alarm systems, music and blind controls, connections for data technology and telecommunications.

Integrated design lines always provide the framework. Today, Gira, Giersiepen GmbH & Co. KG, employs approximately 700 people.

Contact:

Gira
Giersiepen GmbH & Co. KG
Correspondence to:
Postfach 12 20
DEU-42461 Radevormwald

Location:
Industriegebiet Mermbach
Dahlienstrasse
DEU-42477 Radevormwald
Phone: 0049 (0) 21 95 602-0
Fax: 0049 (0) 21 95 602-339
Web: <http://www.gira.de>
E-Mail: info@gira.de

010.2071



Merten

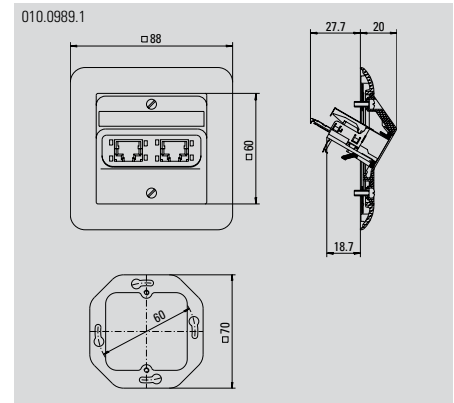
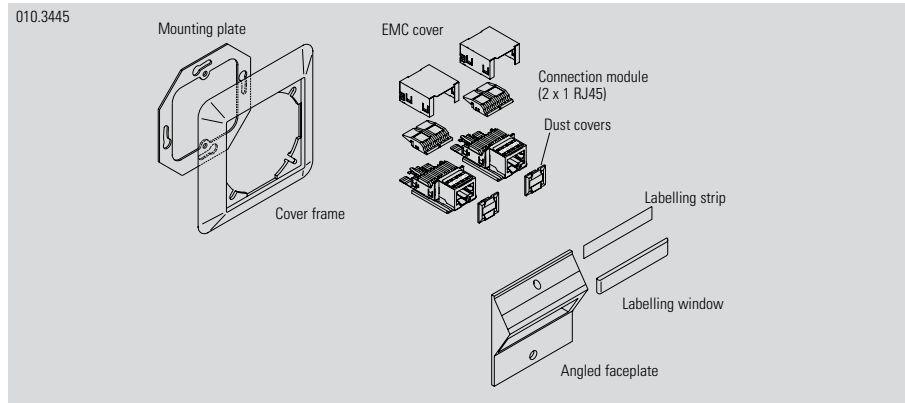
The medium-sized company (600 employees) in the Oberberg Wiehl (Germany) is among the leading German brand manufacturers of electro-technical installation material, electronic products and components for building services management. Since its establishment in 1906, innovation, quality and design have been the most important factors. In 1961 the trend for large surface switches was initiated with the first switch whose conception was dictated by design aspects. It had a screwless cover and a wide rocker. Merten demonstrates with their switch programs that any style can be accommodated in shape, color and function. The product line includes waterproof, weather resistant or extremely impact resistant switch programs for inside and outside.

Contact:

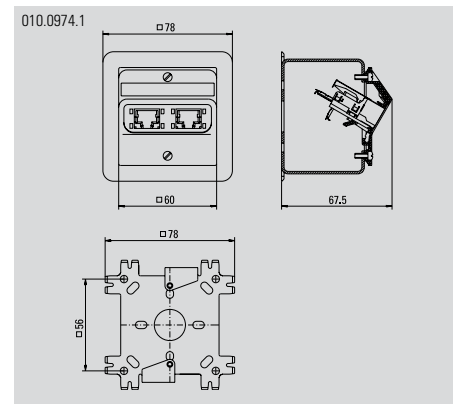
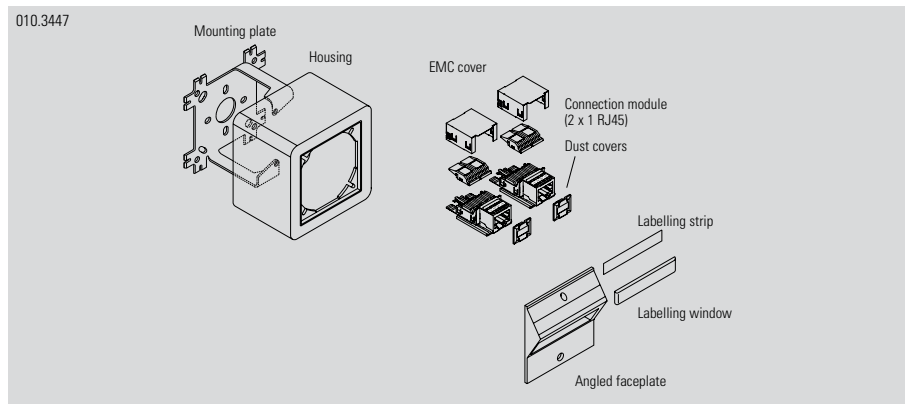
Merten GmbH & Co. KG
Postfach 10 06 53
DEU-51606 Gummersbach
Phone: 0049 (0)2261 702-01
Fax: 0049 (0)2261 702-284
Web: <http://www.merten.de>
E-mail: info@merten.de

Copper Outlets
Techn. Data Copper Outlets

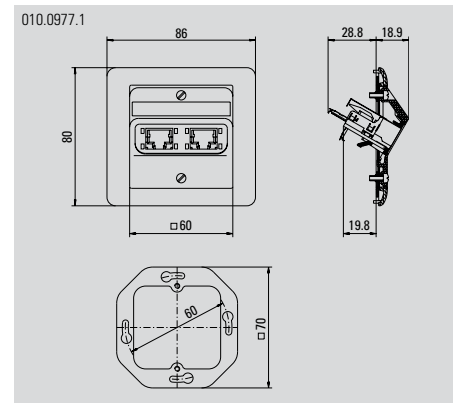
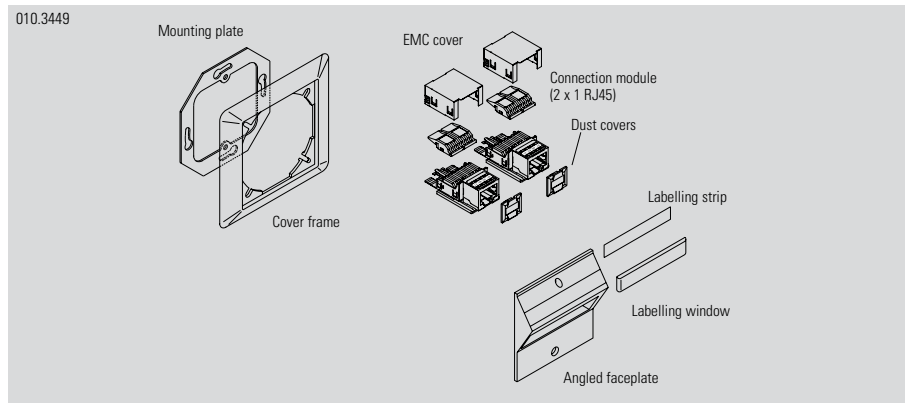
FM Global Outlet, 88x88 mm



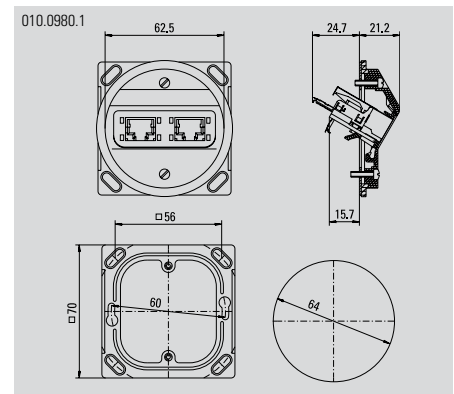
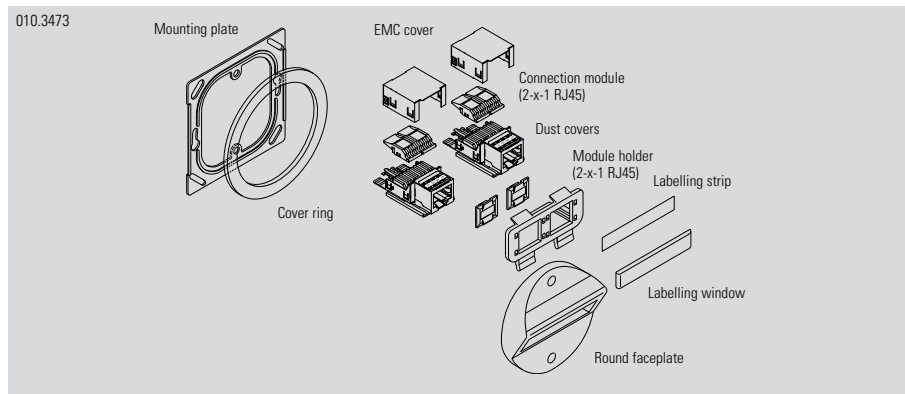
SM Global Outlet, 80x80 mm



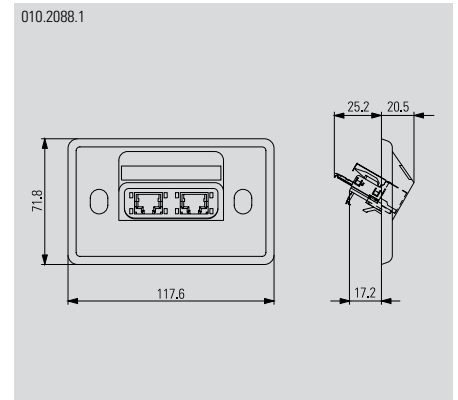
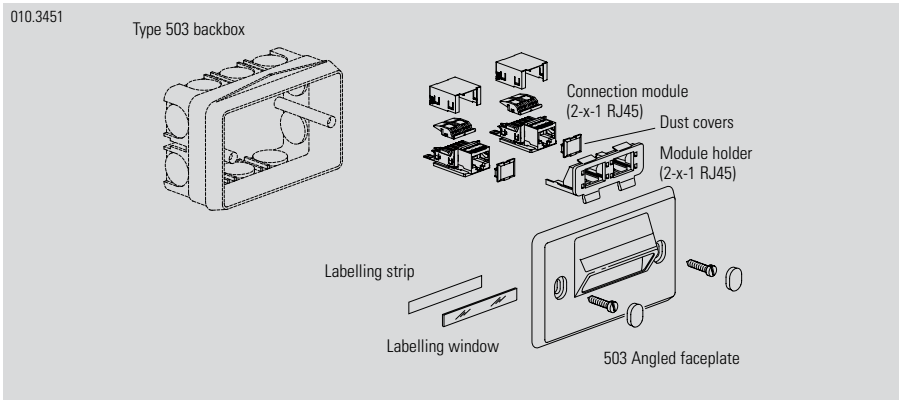
DM Global Outlet, 80x86 mm



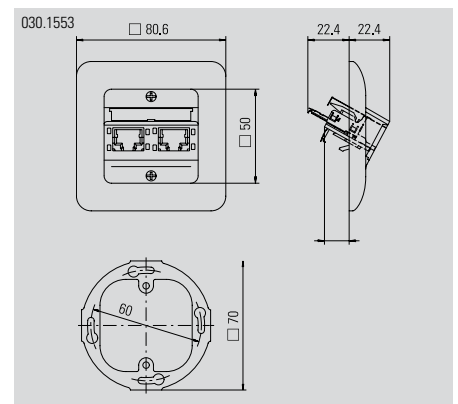
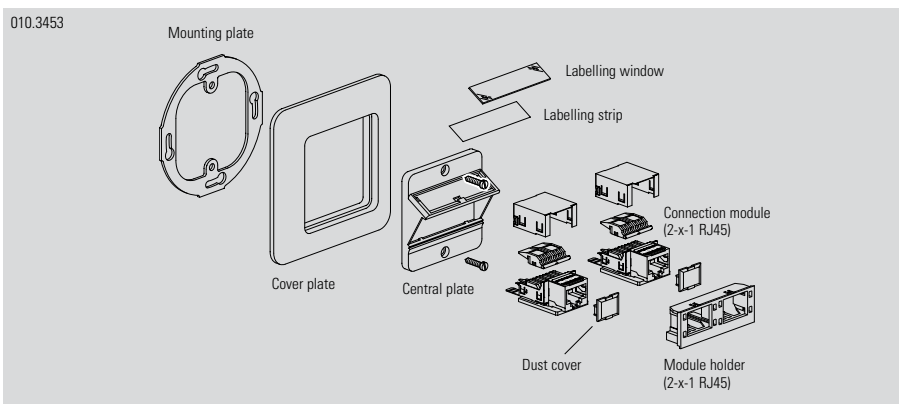
DM Outlet, Ø-62.5 mm



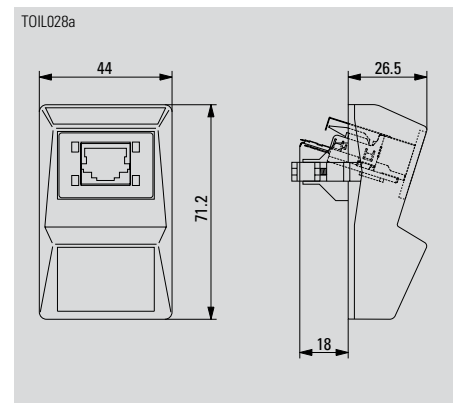
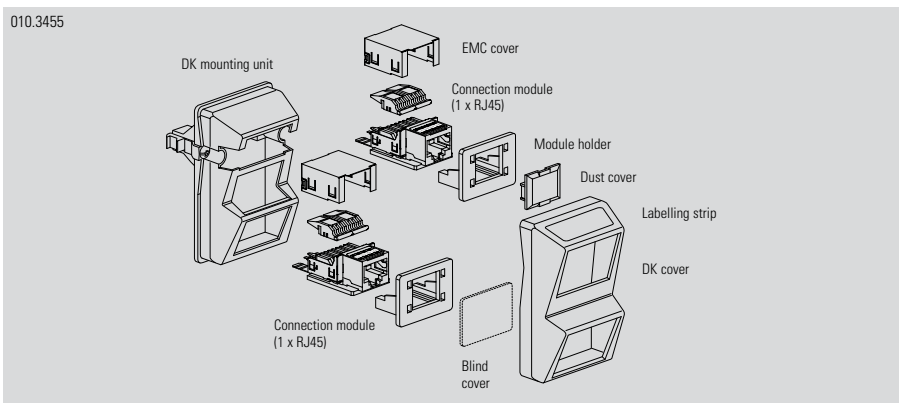
503 Outlet, 118x72



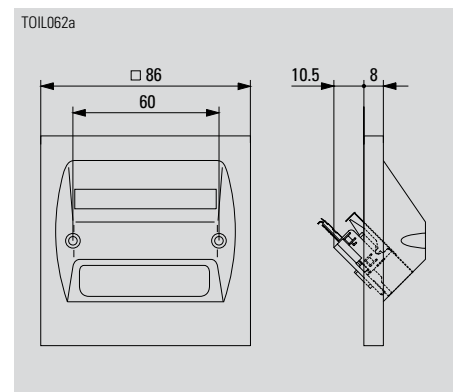
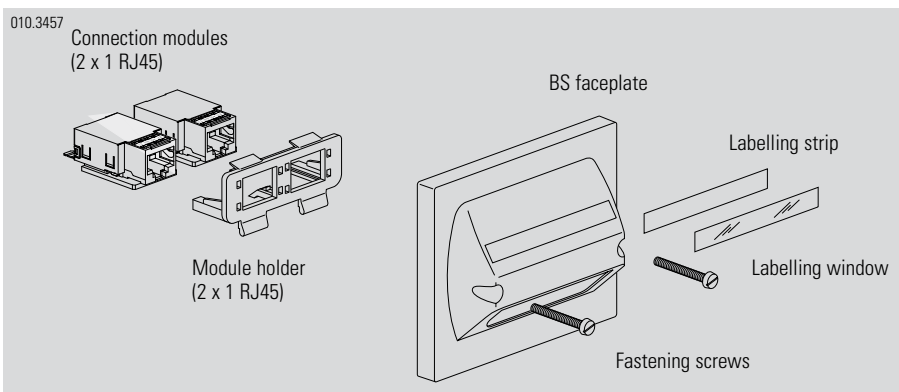
DIN Outlet, 80x80



DK Mounting Unit

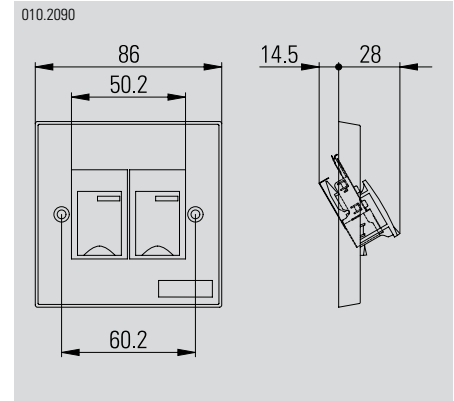
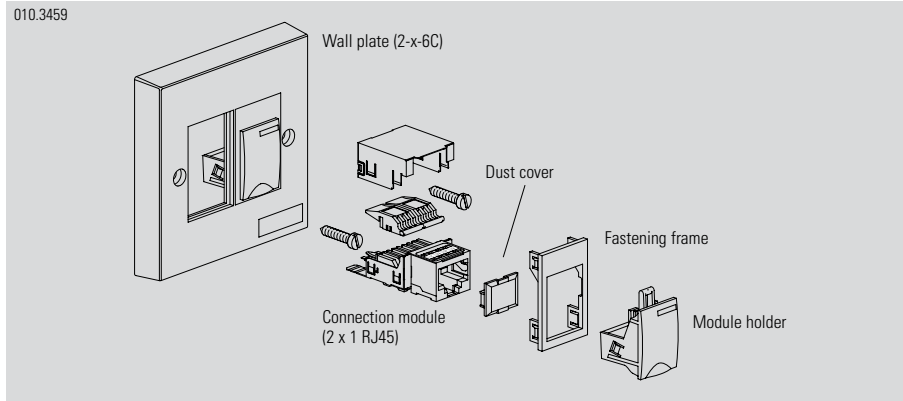


BS Faceplate, 86x86 mm

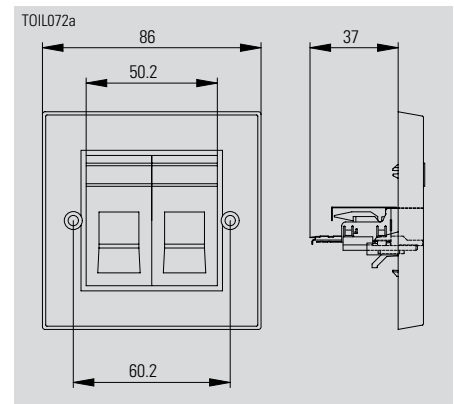
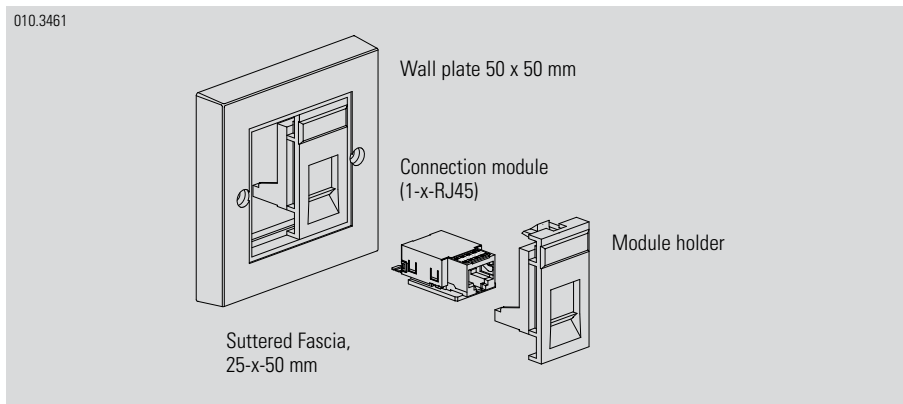


Copper Outlets
Techn. Data Copper Outlets

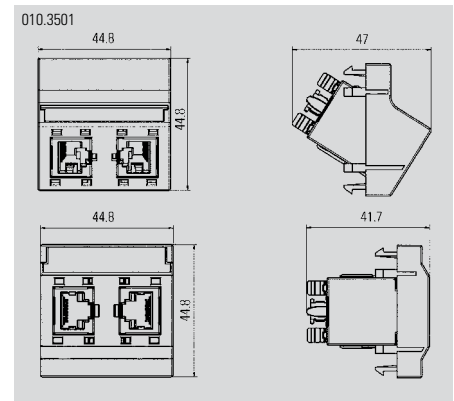
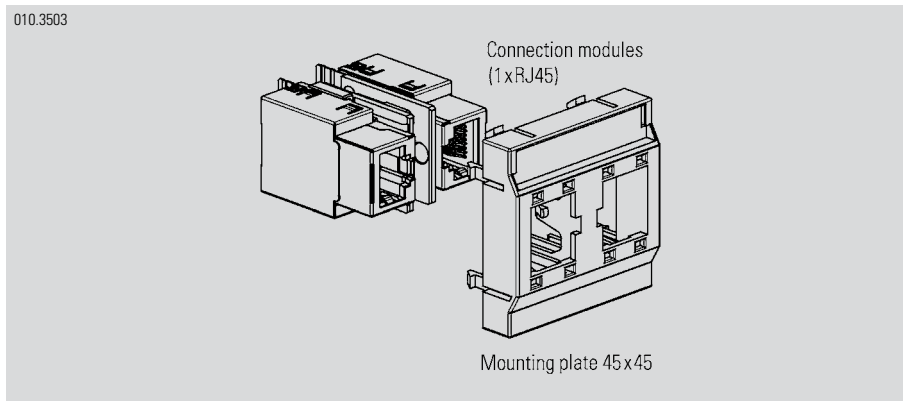
Flap Jack Module Holder (Type 6C)



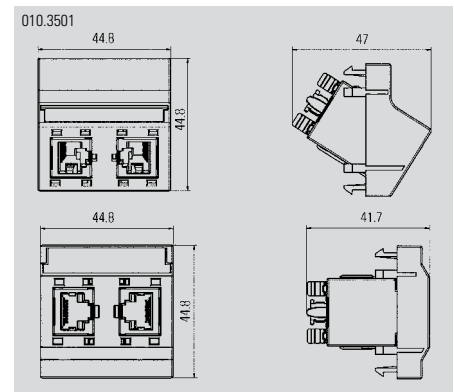
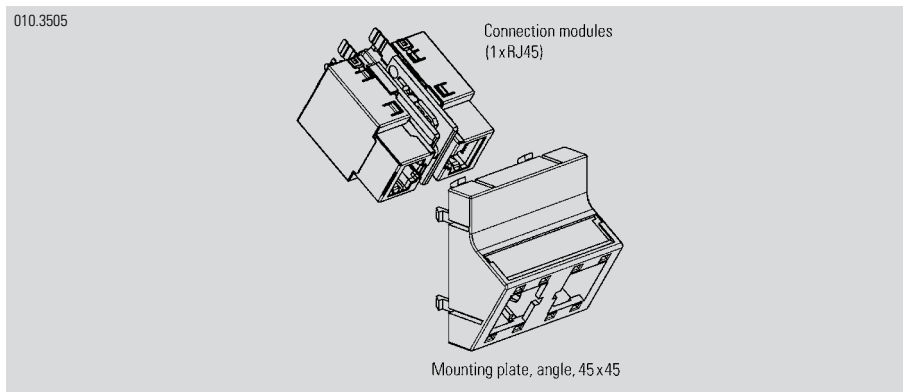
Module Holder Shuttered Fascia, 25x50 mm



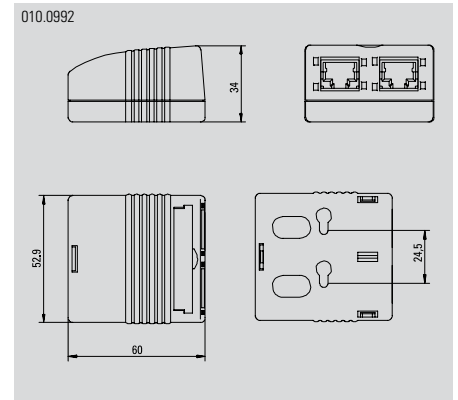
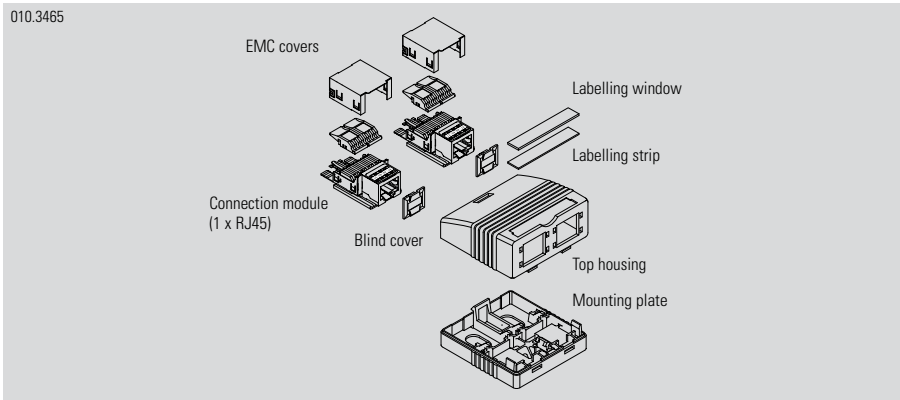
Mounting Plates 45x45 mm



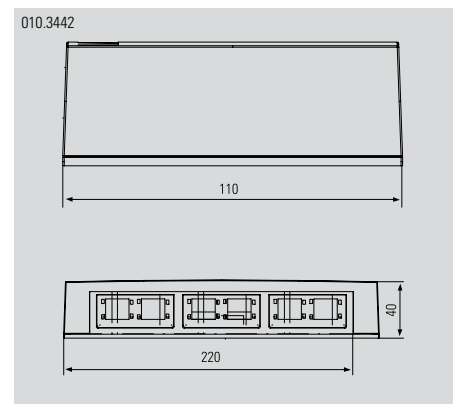
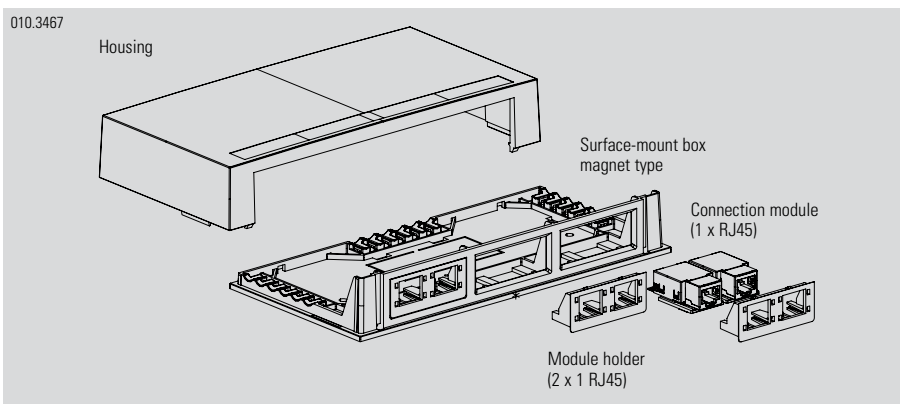
Angled Mounting Plate 45x45 mm



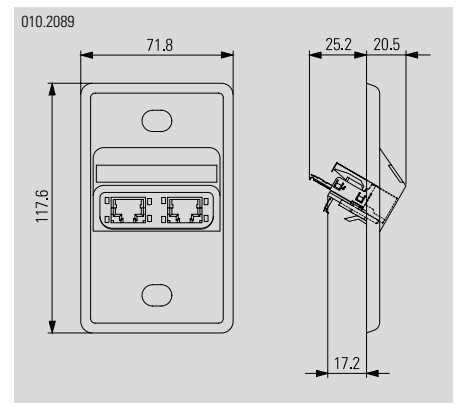
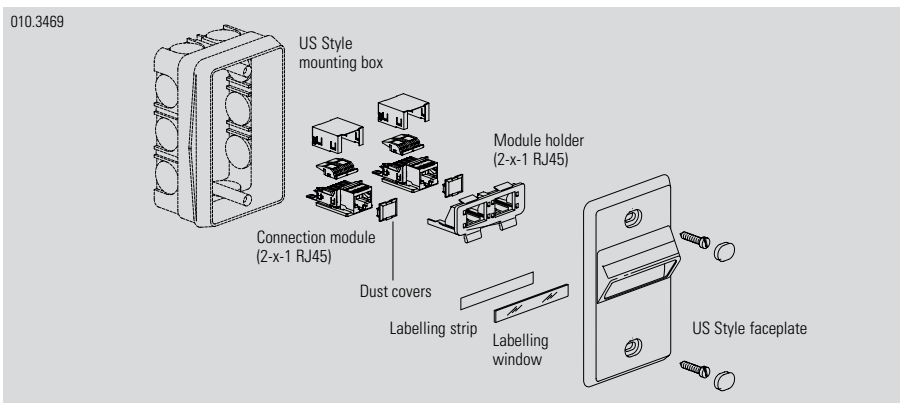
Mini Surface-Mount Box, 34x53x60 mm



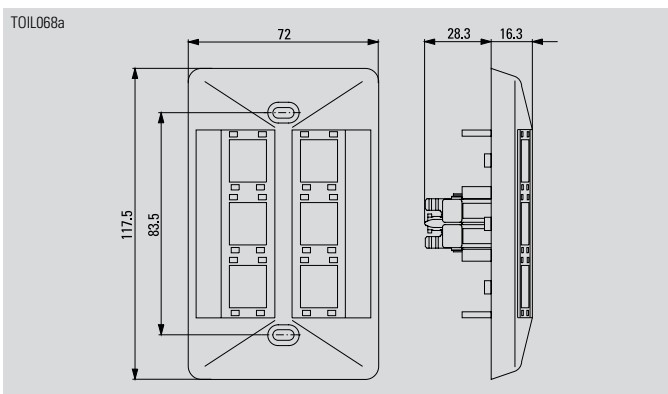
Compact Box 6x1 Port



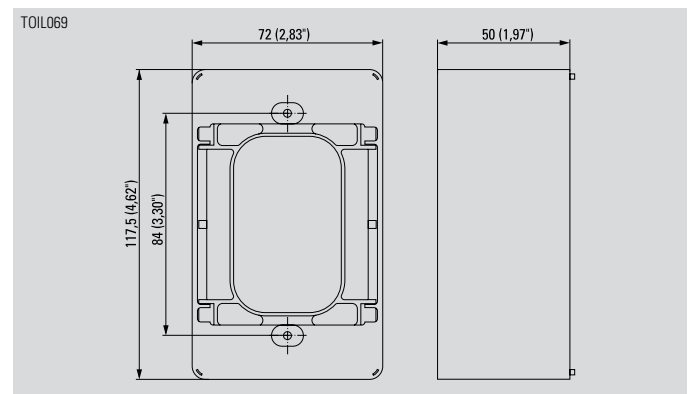
US Faceplate, 2x1 Port



US Faceplate, 6x1 Port

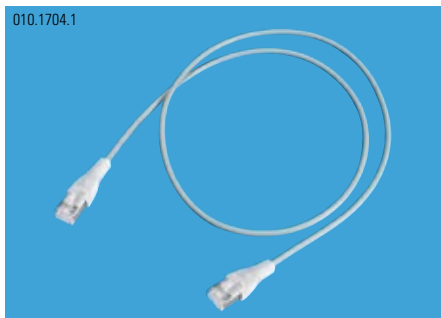


US Backbox



Copper Patch Cords

010.1704.1



Features

- Suitable for the R&M security system
- Suitable for the R&M environment system
- Direct fit into R&M's Data Safe Lock mechanical coding
- Lead-free in accordance with EU directives
- Color coding provided for a clear distinction of services
- R&M production standards ensure high network reliability. Each cable is tested at production level
- System cables include warranty concept

1

010.2038.1



2

010.2038



3

010.2862



Products

Page

1 RJ45 Patch Cord, Cat. 5e	CU 183
2 RJ45 Patch Cord, Cat. 6 / Real10 Cat. 6	CU 185
3 RJ45 Consolidation Point Cable	CU 187
4 Techn. Data Cat. 6 Connector System	CU 189



Features

- Suitable for transmission frequencies of ≥ 200 MHz
- 100 Ohm impedance
- Available in shielded and unshielded versions
- Compliant with Cat. 5e requirements of ISO/IEC 11801, EN 50173, EN 50168 and EIA/TIA 568A/B
- Meet test specifications of EIA/TIA 568A-B.2-1
- With R&M RJ45 connectors in acc. with IEC 60603-7 series
- Connection 1:1

Ordering Information

Description

PU

Part Number

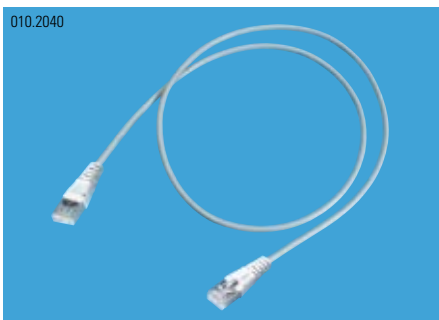


**Patch Cord, Cat. 5e, U/UTP, 4P, PVC, RJ45/u-
 RJ45/u,**

Supplied:

- Cable identification: U/UTP
- Outer jacket: PVC
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 5.1 mm

0.5 m	10	R305014	●
1.0 m	10	R305015	●
1.5 m	10	R305019	●
2.0 m	10	R305020	●
3.0 m	10	R305021	●
5.0 m	10	R305022	●
7.5 m	10	R305023	●
10.0 m	10	R305024	●
12.5 m	5	R305025	●
15.0 m	5	R305026	●
20.0 m	5	R305027	●



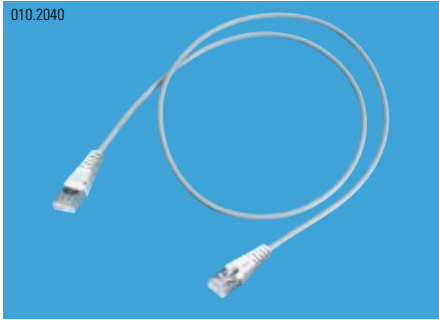
**Patch Cord, Cat. 5e, SF/UTP, 4P, LSFRZH, RJ45/s-
 RJ45/s,**

Supplied:

- Cable identification: SF/UTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: copper braid + AL/foil
- Outer diameter: 5.5 mm

0.5 m	10	R305039	●
1.0 m	10	R305040	●
1.5 m	10	R305041	●
2.0 m	10	R305042	●
3.0 m	10	R305043	●
5.0 m	10	R305044	●
7.5 m	10	R305045	●
10.0 m	10	R305046	●
12.5 m	5	R305047	●
15.0 m	5	R305048	●
20.0 m	5	R305049	●

Copper Patch Cords
RJ45 Patch Cord, Cat. 5e



Patch Cord, Cat. 5e, SF/UTP, 4P, LSFRZH, RJ45/s-RJ45/u,

Supplied:

- Cable identification: SF/UTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: copper braid + AL/foil
- Outer diameter: 5.5 mm

0.5 m	10	R305061	●
1.0 m	10	R305062	●
1.5 m	10	R305063	●
2.0 m	10	R305064	●
3.0 m	10	R305065	●
5.0 m	10	R305066	●
7.5 m	10	R305067	●
10.0 m	10	R305068	●
12.5 m	5	R305069	●
15.0 m	5	R305070	●
20.0 m	5	R305071	●

Matching Accessories

<p>010.1696</p>	<p>020.0977</p>	<p>010.2127</p>					
<p>020.0974</p>	<p>010.1910.1</p>	<p>090.2287</p>					
Page CU 193/197	Page CU 197/201	Page CU 205/201					

010.2038



Features

- Suitable for transmission frequencies of ≥ 450 MHz
- Real10 Cat. 6 allow transmission frequencies of ≥ 650 MHz
- 100 Ohm impedance
- Available in shielded and unshielded versions
- Compliant with Cat. 6, Class E (250 MHz) requirements: ISO/IEC 11801 2nd Edition
- Compliant with Cat. 6 component standards IEC 60603-7-4 and 60603-7-5
- Connection 1:1

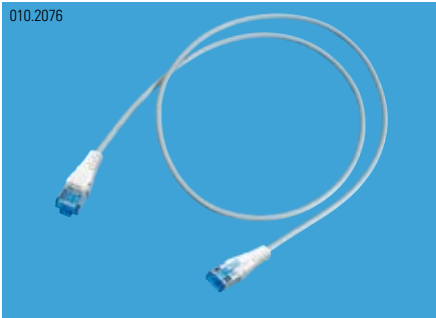
Ordering Information

Description

PU

Part Number

010.2076



**Patch Cord, Cat. 6, U/UTP, 4P, LSZH, RJ45/u-
 RJ45/u,**

Supplied:

- Cable identification: U/UTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 5.6 mm

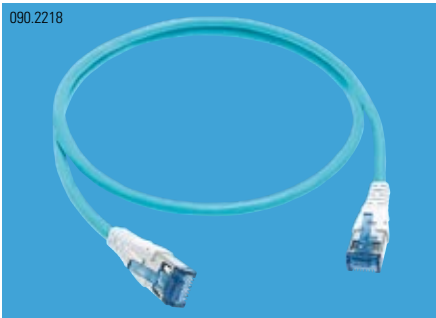
- 0.5 m**
- 1.0 m**
- 1.5 m**
- 2.0 m**
- 3.0 m**
- 5.0 m**
- 7.5 m**
- 10.0 m**
- 12.5 m**
- 15.0 m**
- 20.0 m**

- 10
- 10
- 10
- 10
- 10
- 10
- 10
- 10
- 5
- 5
- 5

- R302309
- R302310
- R302311
- R302312
- R302313
- R302314
- R302315
- R302316
- R302317
- R302318
- R302319



090.2218



**Patch Cord, Real10 Cat. 6, U/UTP, 4P, LSZH, RJ45/
 u-RJ45/u**

Supplied:

- Cable identification: U/UTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 6 mm

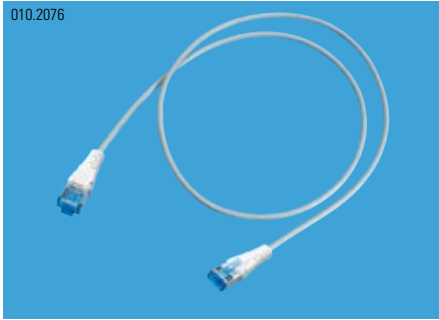
- 1.0 m**
- 1.5 m**
- 2.0 m**
- 3.0 m**
- 5.0 m**

- 10
- 10
- 10
- 10
- 10

- R312804
- R312805
- R312806
- R312807
- R312803



Copper Patch Cords
RJ45 Patch Cord, Cat. 6 / Real10 Cat. 6



Patch Cord, Real10 Cat. 6, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s

Supplied:

- Cable identification: S/FTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: AL/foil
- Overall screen: copper braid
- Outer diameter: 6 mm

0.5 m	10	R302331	●
1.0 m	10	R302332	●
1.5 m	10	R302333	●
2.0 m	10	R302334	●
3.0 m	10	R302335	●
5.0 m	10	R302336	●
7.5 m	10	R302337	●
10.0 m	10	R302338	●
12.5 m	5	R302339	●
15.0 m	5	R302340	●
20.0 m	5	R302418	●

i Cat. 6 patch cords are also available in the colors yellow (RAL1018), red (RAL3018), blue (RAL5012), and green (RAL6018).

Matching Accessories							
<p>010.1696</p>	<p>020.0977</p>	<p>010.2127</p>					
<p>020.0974</p>	<p>010.1910.1</p>	<p>090.2287</p>					
Page CU 193/197	Page CU 197/201	Page CU 205/201					

010.2862



Features

- Consolidation point cables (CP cables) are used in horizontal cabling applications of open cabling systems
- They are the link between the central distributor and the workplace outlet
- CP flex cables Cat.5e and Cat. 6 are available in shielded and unshielded versions
- Their installation is simple and saves a lot of time
- Connection 1:1 between connector and RJ45 connection module

Ordering Information

Description

PU

Part Number

010.2862



CP Cable, Cat. 5e, U/UTP, 4P, PVC, RJ45/u-RJ45/u,

Supplied:

- RJ45/u connector + Cat. 5e connection module
- Cable identification: U/UTP
- Outer jacket: PVC
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 5.1 mm

7.5 m

10

R307083



10.0 m

10

R307084



15.0 m

5

R307085



010.2862



CP Cable, Cat. 5e, SF/UTP, 4P, LSFRZH, RJ45/s-RJ45/s,

Supplied:

- RJ45/s connector + Cat. 5e connection module
- Cable identification: SF/UTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: copper braid + AL/foil
- Outer diameter: 5.5 mm

7.5 m

10

R307086



10.0 m

10

R307087



15.0 m

5

R307088



010.2862



CP Cable, Cat. 6, U/UTP, 4P, LSZH, RJ45/u-RJ45/u,

Supplied:

- RJ45/u connector + Cat. 6 connection module
- Cable identification: U/UTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 5.6 mm

7.5 m

10

R307089



10.0 m

10

R307090



15.0 m

5

R307091



Copper Patch Cords
RJ45 Consolidation Point Cable
Cat. 5e/6 and Real10 Kat. 6



CP Cable, Real10 Cat. 6, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s,

Supplied:

- RJ45/s connector + Cat. 6 connection module
- Cable identification: S/FTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG26/7
- Screened in pairs: AL/polyester foil
- Overall screen: copper braid
- Outer diameter: 6 mm

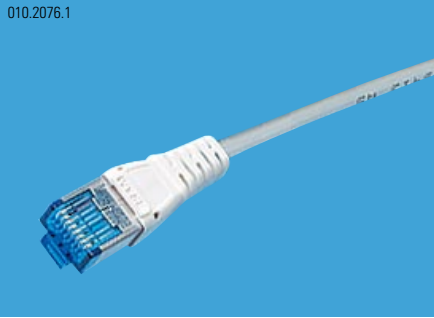
7.5 m
10.0 m
15.0 m

10	R307092
10	R307093
5	R307094



Matching Accessories							
<p>010.1696</p>	<p>020.0977</p>	<p>010.2127</p>					
<p>020.0974</p>	<p>010.1910.1</p>	<p>090.2287</p>					
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010.2076.1



R&M RJ45 acc. to IEC 60603-7-X

- Basic standard: IEC 60603-7 RJ45
- Categories 5 + 6; ISO/IEC 11801: April 2001 IEC 60603-7-1 to 5
- EN 50173: Aug 2001 (Mated Connection)
- EIA/TIA 568B: 2001

Connector features

- Guaranteed constant contact height of 6.00 mm (fixed contact)
- IDC contacting (insulation displacement contact) achieves up to 10 x better contact resistance than penetration contacts (improved long-term stability)
- Repeated catch overstretching (up to 10 x)
- Wire/stranded cables are wired with the same connector
- A large conductor area is contacted
- Signal transmission absolutely stable and reproducible
- Excellent, round strain relief (not affecting the data cable's shape)
- Compact construction
- Backwards compatible

Features strain relief

- Narrow
- Compact
- Alignable
- Coding option
- Labeling window
- Radius limiter at 8 mm
- Available without logo
- Color RAL 9010

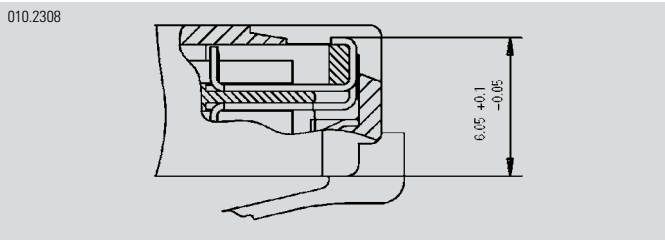
RJ45 connector:

Contact height in R&M connectors never varies due to design and assembly parameters.

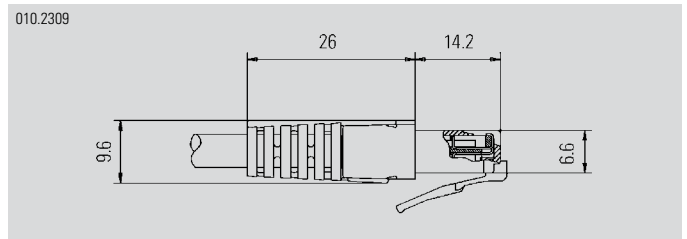
Strain relief:

The R&M strain relief is TIA/EIA-568-B.1-1 compliant.

010.2308



010.2309



Technical Data, Cat. 6 Connector

IEC type identification: IEC-60603-7-X C8 MD-E11-1

1.1 Mechanical data

Pole count	8
Contact material	Bronze (CuSn6)
Contact surface	> 1.2 µm gold over 1.2 µm nickel
Insulation material, connector	Polycarbonate (UL-94-V0)
Mating cycles, min.	> 1000
Connection type	Insulation displacement contact acc. to IEC 6052-4
IDC surface treatment	Tin-plated, approx. 5 µm

1.2 Technische Daten

Admissible wire Ø	0.4 mm - 0.5 mm (AWG26/1 - AWG24/1)
Admissible strand wire Ø	0.09 mm ² - 0.22 mm ² (AWG28/7 - AWG24/7)
Admissible insulation Ø	Max. 1.25 mm
U/UTP cable jacket Ø	4.5 mm - 6.5 mm
S/UTP cable jacket Ø	4.5 mm - 6.2 mm
S/FTP cable jacket Ø	4.5 mm - 6.2 mm
Wire strain relief	With plastic ribs
Cable strain relief	Crimping > 200 N (cable geometry round crimping)
Shield contacting	Large surface crimping 360° (onto cable)
Shield material	Brass (CuZn), hot-dip tinned 3 µm
Wiring	In pairs (no splitting)
Tin-plating	Lead-free
Suitable for ribbon cables	No
Suitable for round cables	Yes

1.3 Electrical Data

Contact resistance (wire - IDC)	< 1 mΩ
Contact resistance (strand - IDC)	< 5 mΩ
Connector contact	< 10 mΩ mit R&M Cat. 6 connector
Connector shield	< 20 mΩ
Insulation resistance (100 V)	> 500 MΩ
Dielectric strength (contact - contact)	> 1000 V, 1 min.
Dielectric strength (shield - contact)	> 1500 V, 1 min.
Nominal current	1.75 A

Application and certification

Mechanical, electrical and transmission characteristics (measured at 20°C).



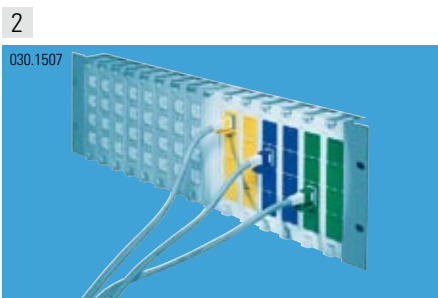
R&M's modular Security System

Neutral studies prove that 70% of all network failures and crashes result from faulty cabling infrastructure or erroneous manipulation of connecting cables. When evaluating the passive network system it is important to carefully check if security aspects are integrally supported and smoothly implemented.

Security level 1: The optical color coding supports correct connecting of the respective cables. The color coding elements are easily clipped to connection cables and ports (outlets, patch panels).

Security level 2: The mechanical-visual coding elements provide additional security on a mechanical level. They simply and effectively prevent cables from being plugged into wrong ports by mistake.

Security level 3: These products introduce future-proof security to network connections. Only trained and authorized staff can release connections. Authorizing connection points access is also an option.



Products	Page
1 Get More Security Level 1	CU 192
2 Security Level 1	CU 193
3 Get More Security Level 2	CU 196
4 Security Level 2	CU 197
5 Get More Security Level 3	CU 199

Products	Page
6 Security Level 3	CU 200

Get More Security Level 1



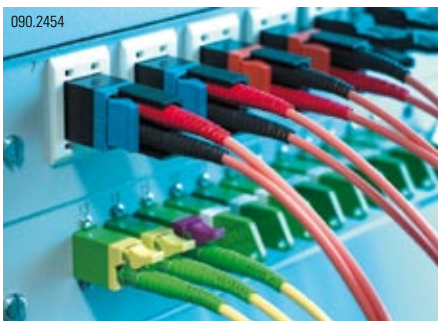
A Global Rack from the R&Mfreenet line fitted with color coded ports and patch cords.



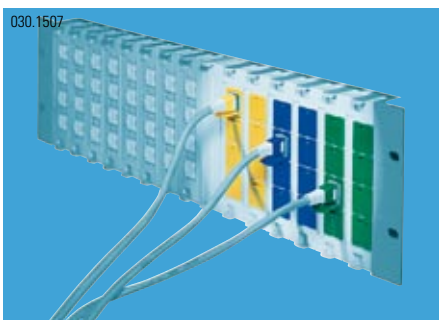
Fiberoptic connection with SC-RJ patch cord plus color clips. SC-RJ patch cords even accept two color coding - one for fiber type and one for application identification.

get more

- Simple, large, and clearly visible identification of network services
- Exchangeable and re-usable color coding elements and hinge protections
- Label field included for individual use or logo
- Elements can be fitted directly anytime
- No tools required



Fiberoptic connections with E-2000™ and E-2000™ Compact plus their color coding clips.



Security level 1 (visual color coding)

The visual color coding supports correct connecting of the respective copper and fiberoptic cables. The color coding clips are easily clipped to connection cables and ports (outlets, patch panels). When applications are reassigned within the network, the color coding elements are simply moved or replaced, no tools needed.

Ordering Information

Description

PU

Part Number



Hinged Dust Cover,

– Dust cover and color coding for RJ45 outlets and patch panels. Fits smartholes.

Supplied:

– Hinged dust covers

anthracite

10

R305685

blue

10

R305686

brown

10

R305687

yellow

10

R305688

gray

10

R305689

green

10

R305690

red

10

R305691

violet

10

R305692

white

10

R305693



Color Coding,

– Color coding for RJ45 patch cords and consolidation point patch cords.

Supplied:

– Color coding

anthracite

20

R302342

blue

20

R302343

brown

20

R302344

yellow

20

R302345

gray

20

R302347

green

20

R302348

red

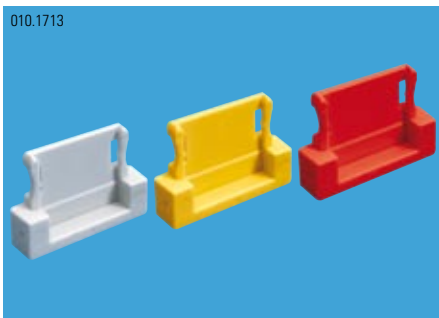
20

R302349

violet

20

R302420



Snap-in Coding Clip,

– Color coding clip for snap-in adapters and the multimedia outlet.

Supplied:

– Snap-in color coding clip

anthracite

10

R302151

blue

10

R302152

brown

10

R302153

green

10

R302154

red

10

R302155

violet

10

R302156

white

10

R302157

yellow

10

R302158



FO Coding Frame for SC-RJ Adapter

Supplied:
 – Color coding frame

12 R310216



Color Clip

– Color coding for SC-RJ patch cord, fiber guard, coding frame and patch guard.

Supplied:
 – Color Clip


green	12	R310141
yellow	12	R310142
blue	12	R310143
red	12	R310144
anthracite	12	R310145
turquoise	12	R310146
violet	12	R310147
orange	12	R310148

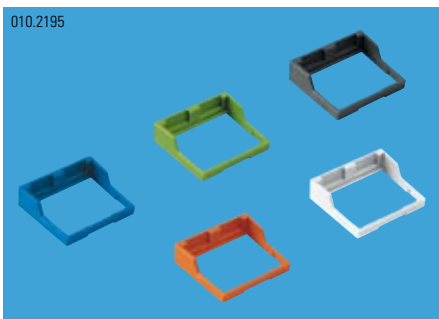


FO Frame for E-2000™ Adapter

Supplied:
 – FO frame

violet	12	R308036
blue	12	R304410
brown	12	R304411
green	12	R304412
red	12	R304413
black	12	R304414
orange	12	R304415
white	12	R304416
yellow	12	R304833
turquoise	12	R308037

 Frame not mechanically coded.



FO Frame for E-2000™ Compact Adapter

Supplied:
 – FO frame

blue	12	R305519
green	12	R305520
black	12	R305524
orange	12	R305521
white	12	R305525
turquoise	12	R308986

 Frame not mechanically coded.

010.2078



FO Lever for E-2000™ Adapter

Supplied:
– FO lever

violet	12	R308035
blue	12	R304404
brown	12	R304405
green	12	R304406
red	12	R304408
black	12	R304409
orange	12	R304407
white	12	R304403
yellow	12	R304832
turquoise	12	R308034

i Lever not mechanically coded.

010.2194



FO Lever for E-2000™ Compact Adapter

Supplied:
– FO lever

blue	12	R305513
green	12	R305514
orange	12	R305515
black	12	R305517
white	12	R305518
turquoise	12	R309004

i Lever not mechanically coded.

i E-2000™ = LSH
E-2000™ Compact = LSH-RJ

Get More Security Level 2



Data Safe Lock by R&M - RJ45-plug-in protection including mechanical and visual coding elements.

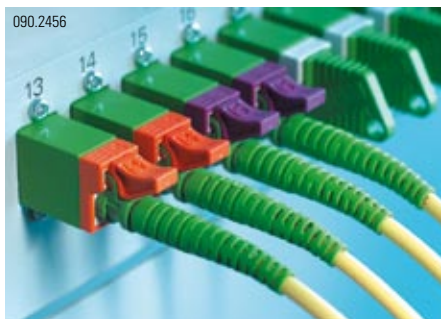


Mechanical reduction from RJ45 to RJ11.

get more 010.2936

- Providing protection for electrical components in networks from interference and damage caused by badly connected terminal equipment
- Offering 6 or 8 different mechanical and visual coding possibilities
- Requiring no tools
- Material halogen-free

@ R&M



E-2000™ connectors with color-coded, mechanical plug-in protection.



Security level 2 (mechanical-visual plug-in protection)

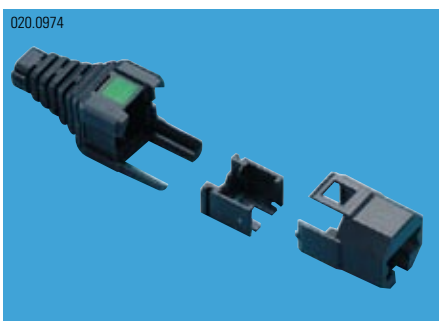
The mechanical-visual coding elements provide additional security on a mechanical level. They simply and effectively prevent cables from being plugged into the wrong ports. Undefined network states are avoided and sensitive network cards protected from destruction.

Ordering Information

Description

PU

Part Number



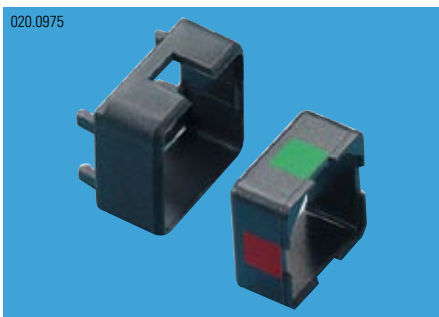
Coding "A" for RJ45 connectors,

- Color code: blue, red, green, anthracite.
 - Suitable for RJ45 patch cords.
- Supplied:
- Coding element
 - Middle element
 - Housing

anthracite

20

R25432



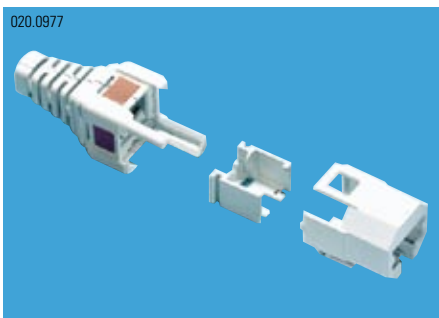
Coding "A" for RJ45 Jacks,

- Color code: blue, red, green, anthracite.
 - Fits smartholes.
- Supplied:
- Coding clip
 - Coding frame

anthracite

20

R25107



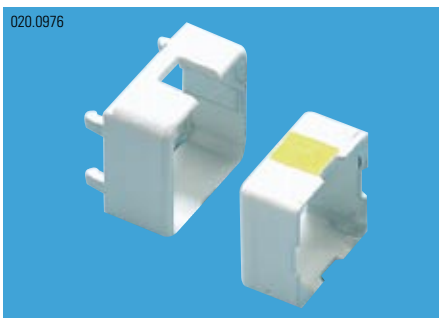
Coding "B" for RJ45 Connectors,

- Color code: yellow, brown, violet, white.
 - Suitable for RJ45 patch cords.
- Supplied:
- Coding element
 - Middle element
 - Housing

white

20

R25677



Coding "B" for RJ45 Jacks,

- Color code: yellow, brown, violet, white.
 - Fits smartholes.
- Supplied:
- Coding clip
 - Coding frame

white

20

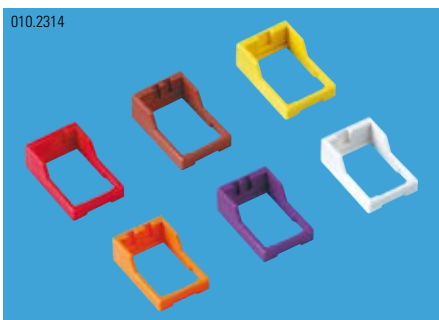
R25676



Plug Reduction Frame RJ45 to RJ11/RJ12,

- Prevents RJ45 plugs (data) being plugged into RJ45 outlets defined as telephone sockets (RJ11 connectors) by mistake.
 - Compatible with R&M RJ45 modules.
- Supplied:
- Plug reduction frame RJ45 - RJ11/12

mint green	10	R310835
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FO Frame for E-2000™ Adapter

- Supplied:
- FO frame

red code 1	12	R306654
brown code 2	12	R306645
yellow code 3	12	R306656
orange code 4	12	R306655
violet code 5	12	R306653
white code 6	12	R306652

Frame mechanically coded.



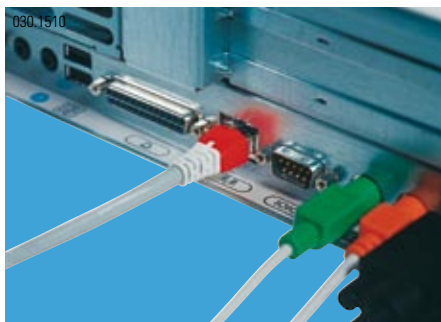
FO Lever for E-2000™ Adapter

- Supplied:
- FO lever

red code 1	12	R306648
brown code 2	12	R306651
yellow code 3	12	R306650
orange code 4	12	R306649
violet code 5	12	R306647
white code 6	12	R306646

Lever mechanically coded.

E-2000™ = LSH
E-2000™ Compact = LSH-RJ



Safe Clip - The solution for R&M standard RJ45 connecting cables, preventing connectors at active equipment from being unplugged by mistake.



Patch Guard - The lock for R&M standard RJ45 connecting cables; the connection to active equipment can only be opened with the matching key.



Jack Guard - Plug-in protection for RJ45 outlets. The Jack Guard sits inside the Plug Guard to be released only with a special key. The same function is available for SC-RJ connections with the SC-RJ Adapter Guard and the Fiber Guard.

get more 010.2936

- Plug-out protection for authorized use
- Plug-in protection for authorized use
- Directly fitted at any point in time
- Tool-free mounting

@ **R&M**



Plug-out protection for E-2000™ connectors. The connections can only be released with the matching key.



Plug Guard by R&M - Plug-out protection for RJ45 connections. A key mechanism locks the connection, which can now only be opened with a specific key.



Fiber Guard - Plug-out protection for SC-RJ connections. It also features a key mechanism.

**R&M Security System
Security Level 3**

010.3116



Security level 3 (mechanical plug-out / plug-in protection)

These products introduce future-proof security to network connections. Only trained and authorized staff can release copper or fiberoptic connections. Copper and FO connectors can also be lock-protected for authorized plug-in only.

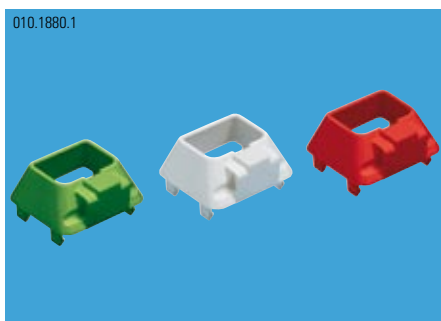
Ordering Information

Description

PU

Part Number

010.1880.1



Plug Guard,

- RJ45 connection protection for outlets and patch panels.
- Fits smartholes.
- Supplied:
- Plug Guard
- 1 key per packing unit

green

20

R304825

white

20

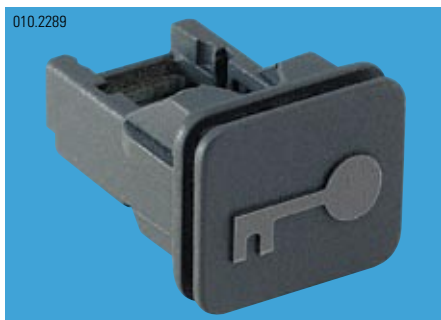
R304827

red

20

R304826

010.2289



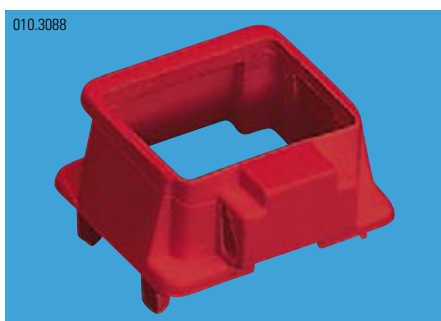
Jack Guard

- RJ45 plug-in protection for outlets and patch panels.
- Fits Plug Guard.
- Supplied:
- Jack Guard
- 1 key per packing unit

20

R307199

010.3088



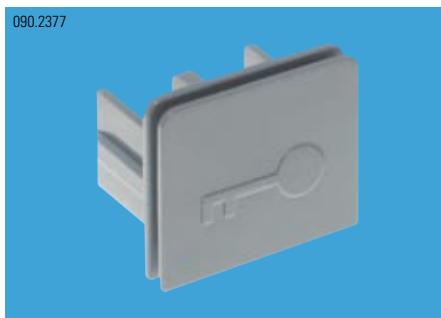
FO Fiber Guard for SC-RJ Adapter

- SC-RJ connection protection for outlets and patch panels.
- Fits smartholes.
- Supplied:
- Fiber Guard
- 1 key per packing unit

12

R310218

090.2377

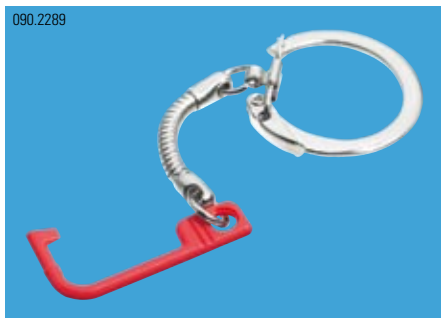


FO SC-RJ Adapter Guard

- SC-RJ plug-in protection for outlets and patch panels.
- Fits Fiber Guard.
- Supplied:
- SC-RJ Adapter Guard

12

R313816

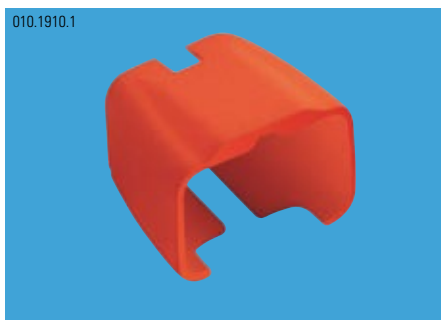


090.2289

Key to Plug Guard and Fiber Guard

Supplied:
Key and keyring

1 R304828



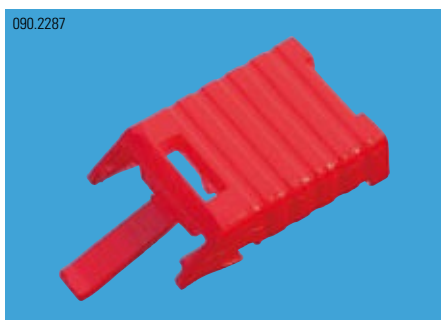
010.1910.1

Safe Clip

– Locking element for RJ45 patch cords (R&M standard patch cords), protecting connections from being unplugged by mistakes.

Supplied:
– Safe Clip

20 R304807



090.2287

Patch Guard for RJ45 Connecting Cables

– Lockable plug-out protection for RJ45 connecting cables (R&M standard patch cables).

Supplied:
– Patch Guard, top part
– Patch Guard, bottom part
– 1 key per packing unit

20 R313814



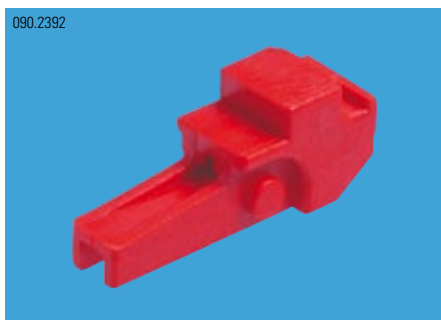
090.2288

Key to Patch Guard

– This Patch Guard key releases locked RJ45 connectors.

Supplied:
– Key plus keyring

1 R313815



090.2392

FO Plug Guard for E-2000™ and E-2000™ Compact Connector

Supplied:
– FO Plug Guard for E-2000™ and E-2000™ Compact connectors

12 R314389

**R&M Security System
Security Level 3**

090.2393



FO Key for Plug Guard E-2000™ Connector

Supplied:

- FO key for Plug Guard E-2000™ connectors

1

R314390

090.2394



FO Key for Plug Guard E-2000™ Compact Connector

Supplied:

- GOF key for Plug Guard E-2000™ Compact connectors

1

R314391



More protection against environmental influences

- Weatherproof housing
- Protection against dust
- Protection against steam / hot water / oils
- Modular, upgradeable design
- Full IP54 protection for mated and unmated connections
- Color coding optional



Products	Page
1 Outlets	CU 204
2 Additional Products and Tools	CU 205
3 IP Protection Classes	CU 207
4 DIN Rail, Mounting Plates	CU 209

Light Industrial Outlets



Operational scope:

- Suitable for surface and flush mounting in wet locations
- Water and dust protected in accordance with IP 54 (Quinel)
- Temperature range of -25°C to +80°C (-40°C to +80°C for storage and transport)
- Steam, hot water, oils
- Condensation
- Salty water environment
- Dust in any form
- Air pollution in general (non acid)

Ordering Information

Description

PU

Part Number



FM Outlet, Splash, 87x87,

Supplied:

- Foam-rubber padded mounting frame
- Cover frame
- Round central plate including O-ring and fastening screws
- Label strips
- Label window
- Instruction manual

1x1 Port, white

1

R307037

2x1 Port, white

1

R307036



SM Outlet, Splash, 87x87,

Supplied:

- Bottom part surface-mounted housing
- Foam-rubber padded mounting frame
- Cover frame
- Round central plate including O-ring and fastening screws
- Label strips
- Label window
- Instruction manual

1x1 Port, white

1

R307038

2x1 Port, white

1

R307039



Cable glands M20x1.5 (min. IP55) not included.

010.2128.1



Combined with a matching outlet, the R&M environment system offers IP54 protection against dust and water for plugged connections - also for closed ports. Included is a 3-prong sleeve expander which lets you fit Splash sleeves on site. They are transparent so that the color coding remains visible. All components are made of halogen-free material in accordance with DIN/VDE 0472/815, and resist the majority of environmental factors. The R&M environment system can be cost effectively added on site since its design fits R&M Smartholes.

Ordering Information

Description

PU

Part Number

010.2134



Splash Cap,

- Offering dust protection and color coding to data outlets and patch panels.
 - This cap with its rubber seal provide protection class IP54.
- Supplied:
- Splash cap
 - Rubber seal
 - Manual

white

10

R306063

blue

10

R306058

red

10

R306062

yellow

10

R306060

green

10

R306061

010.2127



Splash Sleeve,

- Elastic, transparent rubber sleeve suitable for all RJ45 patch cords.
- Together the Splash sleeve and the Splash cap offer protection class IP54.

transparent

10

R306064

010.2140



Splash Mounting Tool,

- Sleeve expander for fitting Splash sleeves onto patch cords.
- The expander features a mechanical stop so as not to overstretch the sleeves.

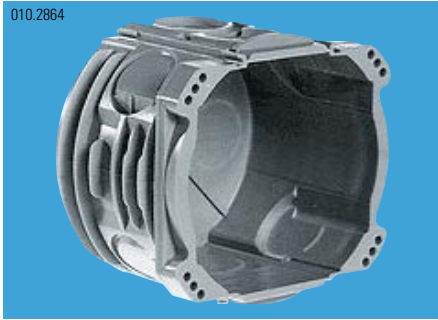
3-Prong Sleeve Expander

1

R306057

**Light Industrial
Additional Products and Tools**

010.2864



Adapter Collar,

– Matching backbox adapter for FM Splash outlets,
87x87 mm, featuring a particularly spacious interior.

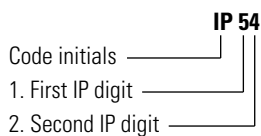
for FM Splash Outlet

10

R309022



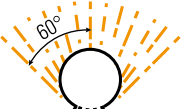

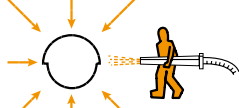
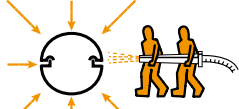


IP Protection

IP stands for the degree of protection from dust and water afforded by electrical equipment and enclosures. The IP Code is determined in accordance with IEC 60529 and EN 60529. IP is short for International Protection and the two digits denote the degree of protection.

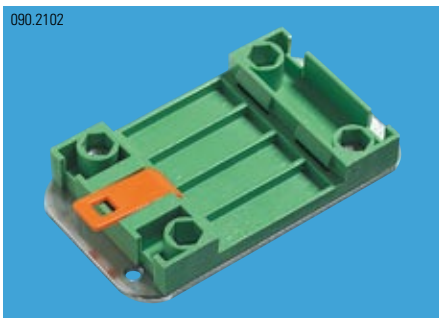


1 st IP Digit	Test Definition	Foreign Object Protection
0		No special protection against penetration of solid object.
1	<p>010.2108</p> <p>∅ 50 mm</p> <p>The access probe (sphere) shall be at safe distance to parts at risk, i.e. not fully penetrate.</p>	Protection against penetration of solid objects larger than 50 mm in diameter.
2	<p>010.2109</p> <p>∅ 12.5 mm</p> <p>The jointed test finger (l = 80 mm) shall be at safe distance to parts at risk, i.e. not fully penetrate.</p>	Protection against penetration of solid objects larger than 12.5 mm in diameter.
3	<p>010.2110</p> <p>∅ 2.5 mm</p> <p>The access probe shall not fully penetrate.</p>	Protection against penetration of solid objects larger than 2.5 mm in diameter.
4	<p>010.2111</p> <p>∅ 1 mm</p> <p>The access probe shall not fully penetrate.</p>	Protection against penetration of solid objects larger than 1 mm in diameter.
5	<p>010.2112</p> <p>Temporary ingress of dust (talcum)</p>	Protection against harmful dust deposits. Ingress of dust is not totally prevented, but does not enter in sufficient quantity to interfere with operation of the equipment (dust protected).
6	<p>010.2113</p> <p>No ingress of dust (talcum).</p>	Full contact protection against ingress of dust (dust tight).

**Light Industrial
IP Protection Classes**

2 nd IP Digit	Test Definition	Water Protection
0		No special protection.
1	010.2114 	Protection against dripping water. It shall have no harmful effect.
2	010.2115 	Protection against dripping water. Dripping water shall have no harmful effect when the enclosure is tilted at any angle 15° from its normal position (indirect dripping water).
3	010.2116 	Spraying water falling at any angle up to 60° from any direction shall have no harmful effect (spraying water).
4	010.2117 	Water splashed against the enclosure from any direction shall have no harmful effect (spraying water).
5	010.2118 	Water jets from any direction. Jet 6.3 mm in diameter Quantity 12.5 l/min.
6	010.2119 	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities (flooding). Jet 12.5 mm in diameter Quantity 100 l/min.
7	010.2120 	Ingress of water in harmful quantities shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (submersion). In pool with 1 m water pressure height
8	010.2121 	The equipment suitable for continuous submersion in water under conditions which shall be specified by the manufacturer (submersion). The conditions shall be more difficult than under IP digit 7. Continuous submersion As agreed between manufacturer and customer

090.2102



Features

- For a fast fitting of housings and small patch panels on DIN top-hat rails
- For use in switch cabinets and cable shafts

Ordering Information

Description

PU

Part Number

090.2111



DIN Top-Hat Rail Patch Panel with Module Holders,

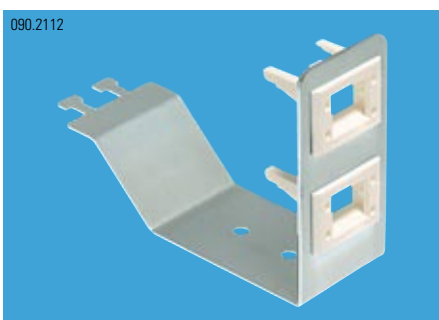
- Suitable for RJ45, SC-RJ and E2000™Compact.
- Supplied:
 - 8-port patch panel
 - 8 module holders, white
 - 2 mounting clips fitting DIN top-hat rail

8-port

1

R311181

090.2112



DIN Top-Hat Rail Patch Panel with Module Holders,

- Suitable for RJ45, SC-RJ and E2000™Compact.
- Supplied:
 - 2-port patch panel
 - 2 module holders, white
 - Mounting clip fitting DIN top-hat rail

2-port

1

R311182

090.2110



DIN Top-Hat Rail Patchbox,

- Supplied:
 - Patchbox housing plus cover 97x133x137 mm
 - Mounting plate fitting DIN top-hat rail
 - 2 Universal units 5 x 1-port
 - 4 knurled screws M3 x 9mm
 - 2 label strips, blank
 - 2 transparent covers
 - 10 cable ties
 - Universal unit installation instructions

10x1 Port

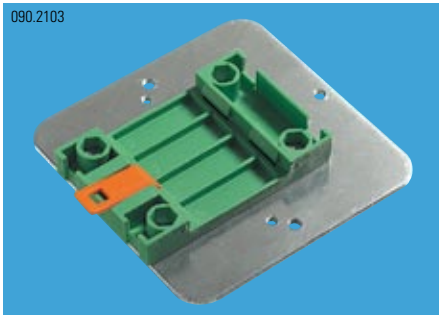
1

R309966



Excluding modules.

**Light Industrial
DIN Rail, Mounting Plates**



DIN Top-Hat Rail Mounting Plate,

Supplied:

- Mounting plate fitting DIN top-hat rail
- Adapter plate 85 x 86 mm
- 2 countersunk screws M4 x 10 mm
- 2 cylinder screws M4 x 10 mm

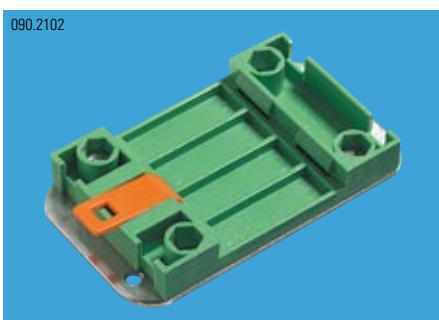
85x86 mm

1

R311160



For the following outlets: R303458, R303462, R303452, R303454, R303496, R304971, R307038, and R307039.



DIN Top-Hat Rail Mounting Plate,

Supplied:

- Mounting plate fitting DIN top-hat rail
- Adapter plate 45 x 80 mm
- 2 countersunk screws M4 x 10 mm
- 2 cylinder screws M4 x 10 mm

45x80 mm

1

R311161



For mini surface-mount box: R925728.



RCO DIN Top-Hat Rail Adapter

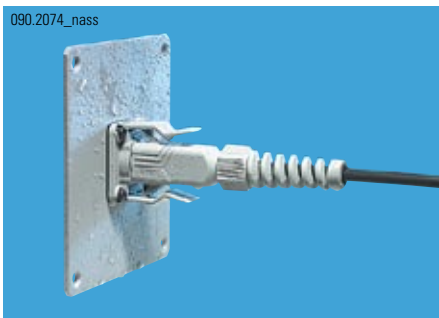
- Suitable for fastening CO3p adapters, CO5p adapters and Bus Outlets onto DIN 35 mounting rails.

Supplied:

- DIN 35 top-hat rail adapter
- 2x 3M dual locks
- Instruction manual

1

R311559



Products	Page
1 Installation Cables Industrial	CU 212
2 RJ45 Connectors IP67	CU 213
3 RJ45 Wall Outlets IP66/67	CU 214
4 RJ45 Patch Cords IP	CU 216
5 SC-RJ Connectors, IP67	CU 217

Products	Page
6 FO Wall-Mount Distributors IP66/67	CU 218

**Heavy Industrial
Installation Cables Industrial**



Features

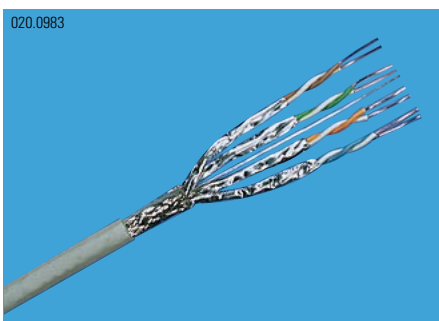
- Industrial installation cables for extreme environmental conditions
- Water and oil repellent
- UV resistant
- Suitable for indoor and outdoor installations

Ordering Information

Description

PU

Part Number



Installation Cable, Cat. 5e, S/FTP,

Supplied:

- Cat. 5e, S/FTP cable
- Foil and tin-plated copper braid shielding
- 100 Ω impedance
- Data transmission frequency up to 200 MHz

Cable features

- Standards: EN 50173, ISO/IEC 11801, EN 50288-2-1
- Fire classification: IEC 61034, IEC 60754, IEC 60332-3C
- Oil resistance: standard CEI 20.34, 4 hours, 70 °C in oil
- Temperature range: -20 °C to +60 °C
- Color: RAL 7035

4P, LSFRZH, 100 m

100

R313686

4P, LSFRZH, 500 m

500

R309319



Installation Cable, Real10 Cat. 7, S/FTP,

Supplied:

- Real10 Cat. 7, FL.RET cable
- Foil and tin-plated copper braid shielding
- 100 Ω impedance
- Data transmission frequency up to 900 MHz

Cable features

- Standards: EIA/TIA 568B, ISO/IEC 11801 2.ed, IEC 61156-5, EN 50173, EN 50188-4-1
- Fire classification: IEC 60332-1, IEC 60754-2, IEC 61034
- Temperature range: -20 °C to +60 °C
- Halogen-free and flame-retardant plus water-tight layer jacket
- Color: black

4P, FL.RET, 100 m

100

R313685

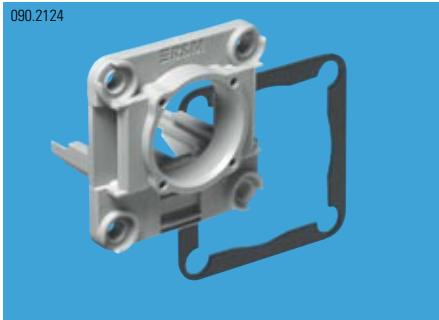


4P, FL.RET, 500 m

500

R313683



The RJ45 IP67 complies with IAONA requirements for heavy duty environments. IAONA stands for international alliance of manufacturers and operators of automation systems, and among other things, they set up the industrial Ethernet standards. By IAONA definition heavy duty means demanding production environments as defined in protection index IP67 and standard IEC 6029.

Ordering Information	Description	PU	Part Number
	<p>Mounting Frame IP67</p> <ul style="list-style-type: none"> – Compatible with SC-RJ and RJ45 one-channel module. <p>Supplied:</p> <ul style="list-style-type: none"> – Mounting frame – Gasket 	5	R309588
	<p>Protective Cover for Mounting Frame IP67</p> <ul style="list-style-type: none"> – Cover protecting the contact insert in the adapter frame or the sleeve housing. 	5	R309589
	<p>Color Coding for Mounting Frame IP67</p> <ul style="list-style-type: none"> – Color coding clips suitable for RJ45 IP67 connectors, SC-RJ IP67 connectors and adapter frames. <p>Supplied:</p> <ul style="list-style-type: none"> – 50 coding clips, orange – 50 coding clips, blue – 50 coding clips, white – 50 coding clips, yellow 	1	R310262

Heavy Industrial
RJ45 Wall Outlets IP66/67



Features

- UL approved SM housing made of polycarbonate
- Heat resistant from -50°C to +100°C
- Protection class IP66/67 acc. to EN 60529
- Recognized in compliance with: Germanischer Lloyd, UL, cUL, GOST, SGS Fimko EN 50298
- Impact strength: IK08 acc. to EN 50102

Ordering Information

Description

PU

Part Number



SM Outlet IP66/67, 80x120x56,

Supplied:

- Housing bottom
- 1 mounting hole for M20 cable glands
- 1 mounting hole for IP67 mounting frame
- Cover including gasket and screw covers
- 4 screws (stainless) to fasten the cover
- 4 screws for the IP67 mounting frame

empty

1

R311624



Excluding IP67 mounting frame and M20 cable glands.



SM Outlet IP66/67, 120x122x56,

Supplied:

- Housing bottom
- 2 mounting holes for M20 cable glands
- 2 mounting holes for IP67 mounting frame
- Cover including gasket and screw covers
- 4 screws (stainless) to fasten the cover
- 8 screws for the IP67 mounting frame

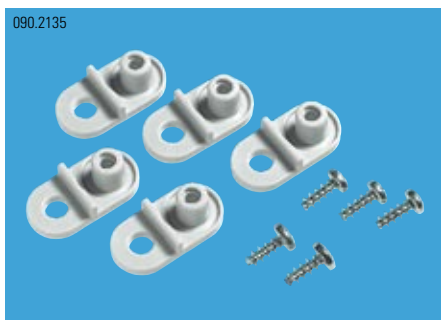
empty

1

R311625



Excluding IP67 mounting frame and M20 cable glands.



SM Mounting Lugs

Supplied:

- 4 mounting lugs
- 4 screws

1

R311626

010.3205



Cable Gland IP67,

Supplied:
– Cable gland IP67
– Counternut

M20

M32

1

R310726

1

R310727

Matching Accessories

090.2124



010.3205



010.3208



090.2135



Page CU 213/213

Page CU 215/214

Heavy Industrial RJ45 Patch Cords IP



Features

- Patch cords equipped with PUR jackets, ideal for use in harsh environments
- Available in different combinations and lengths, IP20 up to IP67
- Cat. 6 standard ISO/IEC 11801 compliant, 250 MHz

Ordering Information

Description

PU

Part Number



**Patch Cord, Real10 Cat. 6, S/FTP, PUR, RJ45/s,
IP20-IP20,**

2.5 m	5	R313633
5.0 m	5	R313634
7.5 m	5	R313635
10.0 m	5	R313632



**Patch Cord, Real10 Cat. 6, S/FTP, PUR, RJ45/s,
IP67-IP20,**

2.5 m	5	R313637
5.0 m	5	R313638
7.5 m	5	R313639
10.0 m	5	R313636



**Patch Cord, Real10 Cat. 6, S/FTP, PUR, RJ45/s,
IP67-IP67,**

2.5 m	5	R313641
5.0 m	5	R313642
7.5 m	5	R313643
10.0 m	5	R313640



The SC-RJ IP67 connector developed by R&M is a new fiberoptic connector of protection class IP67 that unites a unique range of features, and supports applications of up to 10 Gigabit Ethernet. The connector system is a first of its kind for industrial applications, designed in Small Form Factor and featuring 2.5mm ferrule technology, a safety system and double color coding.

Ordering Information	Description	PU	Part Number
	<p>FO Adapter SC-RJ IP67, ceramic Supplied: – 1 adapter including mounting plate for IP67 – 4 dust covers</p>	12	R311496
	<p>FO Adapter SC-RJ IP67, PhBr Supplied: – 1 adapter including mounting plate for IP67 – 4 dust covers</p>	12	R309641
	<p>FO Housing SC-RJ IP67 Supplied: – IP67 housing including protective cover and lugs for surface mounting – 2 mounting frames IP67 – 2 protective covers for mounting frame IP67 – 1 FO adapter SC-RJ IP67, PhBr</p>	1	R310724

Heavy Industrial
FO Wall-Mount Distributors IP66/67



Features

Housing:

- SM sheet steel housing (bent to shape and seam-welded) of IP66
- Color NCS 2502-B, powder/structure/lacquer

Door:

- Overlay door, opening angle 130°
- Can be removed and fitted to all four sides
- Lock option with DIN locking

Ordering Information

Description

PU

Part Number



FO Wall-Mount Distributor IP67, 200x200x80,

Supplied:

- 4 mounting frames IP67 including protective covers
- 4 mounting holes for M20 cable glands plus blind covers
- 1 mounting hole for M32 cable gland plus blind cover
- 1 radius limiter 30 mm
- 1 wall-mount fastening kit
- Installation instructions

4x1-port

1

R310723



FO Wall-Mount Distributor IP67, 300x300x80,

Supplied:

- 6 mounting frames IP67 including protective covers
- 6 mounting holes for M20 cable glands plus blind covers
- 2 mounting holes for M32 cable glands plus blind covers
- 1 mounting plate for splice trays R30/R40, pigtail holders or cable guides
- 1 wall-mount fastening kit
- Installation instructions

6x1-port

1

R310722

010.0831.1



Make more out of your cabling

- Standards-compliant adapter solutions
- More flexibility
- More options for extension
- Less problems

1

010.0831.1



2

010.2751



Products

Page

1 Adapter Easy Flex, Shielded	CU 220
2 CATV Solution 862/8 MHz	CU 221
3 Techn. Data	CU 222

Adapter and CATV Solutions
Adapter Easy Flex, Shielded

010.0831



Features

- Making use of all four pairs of an generic transmission link
- No installation downtime, simply plug-and-play.
- All major applications can be realized with only four fully shielded Cat. 5 Easy Flex types
- Can be pivoted by 60° and aligned on patch panels or outlets

Ordering Information

Description

PU

Part Number

010.0831



Easy Flex Shielded,

Type 1

2

R25938

Type 2

2

R25939

Type 4

2

R35120

Applications

	Easy-Flex					
	Type 1		Type 2		Type 4	
Jack	A	B	A	B	A	B
Pin assignment	3+6/4+5	3+6/4+5	3+6/4+5	1+2/3+6	1+2/3+6	1+2/3+6
Token ring	x	x	x			
Ethernet				x	x	x
Phone / fax / modem	x	x	x			
ISDN	x	x	x			

010.2751



Features

- Offering multimedia solutions between 47-862 MHz over the existing 100 Ω generic cabling system (twisted pair) Cat. 5e/6
- Cable runs of up to 90m can be realized without requiring signal amplification
- Cost-effective integration of additional users without mounting expenses
- TV signal feed over standardized RJ45 plug systems
- Plug-and-play system
- Impedance matching 100 / 75 Ω integrated in the connecting cable

Ordering Information

Description

PU

Part Number

010.2863



19"1U Patch Panel,

- Active panel for the distribution of CATV signals over a structured cabling system.
- The CATV panel converts the CATV signal (coaxial 75 Ohm) into a symmetrical signal (100 Ohm).
- Operating telephone services over the same connection is optional.

Supplied:

- 19" CATV panel including mounting material
- Power supply 220V/24V
- Installation instructions

CATV 862MHz 8xRJ45

1

R308808

010.2752.1



Balun Connection Cable, SF/UTP, 4P, PVC, RJ45-Coax,

- The CATV balun converts the transmitted, symmetrical CATV signal (100 Ohm) in a structured cabling system, into an asymmetrical, coaxial signal (75 Ohm) which can be read by the terminal device (e.g. a TV set).

2.5 m

1

R308809

5 m

1

R308810





19" CATV panel 862/8 MHz

Test criteria	Value
Frequency range	47 - 864 MHz
Frequency range return channel (optional)	5 - 30 MHz
Input level range, angled < 3 dB	70 - 80 dB V
Amplification	15 - 35 dB
Signal output	< 97 dB V
Impedance matching	75 / 100 Ohm
Link lengths	15 - 90 m
HF input socket (F-socket)	75 Ohm
Cat. 6 exits	8 x RJ45
Pin assignment	Pin 4 + 5
Output level	< 97 dB V
Power supply (external unit)	15 V / 800 mA
Housing 1U (metal)	19"

Power supply unit

Test criteria	Value
AC/AC power unit	9 - 24 V / 1000 mA
AC voltage plug	2.1 x 5.0 mm
Connection cable	1.75 m
Power plug (CEE standard compliant)	T26
Overload/short-circuit protection	Yes

CATV Balun Connection Cable

Test criteria	Value
RJ45 Cat. 6 connector acc. to	IEC 60603-7
Impedance matching	100 / 75 Ohm
Cable type (R&M/freenet Cat. 6 flex)	SF/UTP
Lengths	2.5 m + 5.0 m

Image quality in relation to cable lengths and frequencies

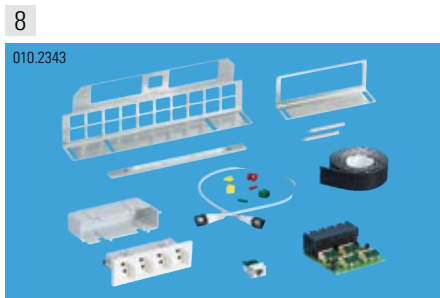
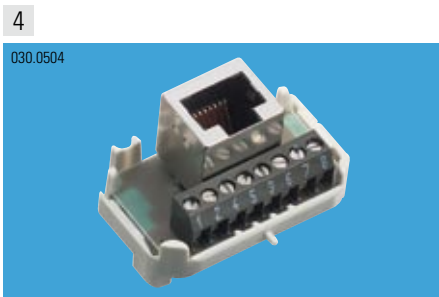
Bandwidth of the cable network *

	Length	50 MHz	300 MHz	600 MHz	862 MHz
Very good image quality.	15 m	3.1	8.1	13	22
	30 m	6	13	21	29
In this area image quality depends on the cables used, and of the TV equipment used.	45 m	8	18	28	37
	60 m	11	23	36	45
	90 m	13	29	45	56

Depending on cable and conductor diameters, length deviations above or below the indicated figures may occur.

* Conductor diameter 0.55 mm.

Residential Cabling, Multimedia Cabling



Products

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2 Techn. Data Broadband Modem Outlet	CU 242
3 Techn. Data Broadband Outlet SAT + R/TV	CU 244
4 Techn. Data Broadband Outlet R/TV	CU 245
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Products	Page
6 Techn. Data Installation Kit CATV	CU 247
7 Techn. Data Installation Cables	CU 248

Customer Benefits

010.2904



The multimedia marvel
– all connections in one outlet

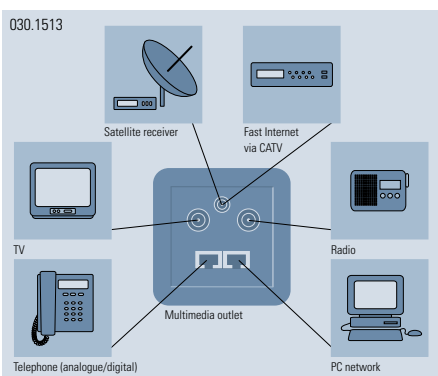
get **more**

010.2936

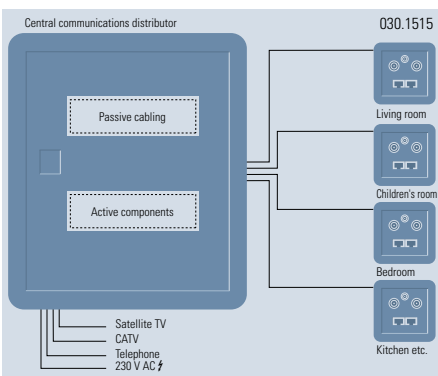
Multimedia cabling solutions

- Perfectly matched components
- Multimedia outlets
- Efficient connection technology
- Optimised telecommunications cabling for home use
- Excellent electrical values





The R&M multimedia outlet and its applications.



For neat installations: the R&M multimedia outlet in conjunction with a central communications distributor.

R&M Multimedia Outlet – an outlet with a future

Changes are taking place in working and living environments, new technological developments enter our lives every day, and workplaces are more and more being moved into the private four walls. Consequently, it is increasingly important that installations and cabling systems are not only planned wisely cost-wise but also with regards to options they offer for possible future applications.

Today, telecommunications suppliers are outdoing each other with even better offers, and the customers obviously want to be free in their choice. There only is a freedom of choice, however, if the required passive cabling structure is available at every workplace or in all living quarters, independent of the telecommunications supplier the customer bought from. This is where R&M's multimedia outlet's unique advantages come into play. One single outlet allows the combination of a variety of applications: TV, Fast Internet over CATV, satellite receiver, radio, ISDN, analogue telephony, and PC network. This gives you the maximum freedom of choice and covers all existing and future requirements. In short, this is flexibility in its purest form.

R&M's Home Wiring concept featuring the multimedia outlet and one communications distributor

With the new multimedia outlet from R&M for the first time a structured cabling system that is tailored to specific requirements can be set up in the residential sector, too. The multimedia outlets are connected in a star topology via a central communications distributor, which provides enough space for all active components (NT, HUB, CATV modem, ADSL modem, router, etc.) as well as all the passive ones. Optimum cost/price performance, absolutely future-proof, fast and easy installation, and the possibility of extension at any time – these are but a few of the features of the new R&M Home Wiring concept.

R&M fulfils the international standards

The new R&M home wiring concept meets the current standards in accordance with EN 50173 and all the relevant standards in information technology.

Not only in the residential area

The new R&M multimedia outlet cannot only be fitted in new buildings but be added to existing installations, too. In addition to residential cabling it has many more additional operational areas, such as hospitals, homes, hotels, restaurants. In short, it is ideal for all companies and businesses with wide-ranging multimedia requirements.

**Residential Cabling, Multimedia Cabling
Multimedia Outlets**

010.2904



Features

- Including stub outlets and loop-through outlets; the full range
- Modular configurations with RJ45 inserts optional
- Patented, efficient and secure connection technique
- The new tangential cable feed of the coaxial cable
- Separated connections for incoming/outgoing coaxial cables
- Excellent electrical values (EN 50083 - screening factor A)
- Mounting depth of only 23 mm

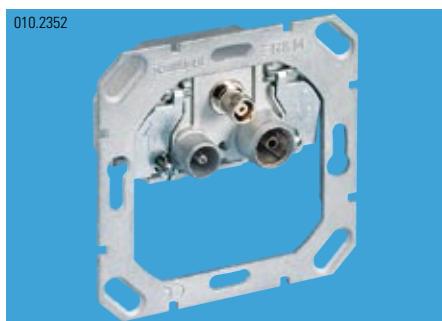
Ordering Information

Description

PU

Part Number

010.2352



Broadband Modem Outlet, 30 MHz,

Supplied:

- R/TV connections to IEC standard
- MiniDat jacks for cable modem (compatible with ©Wisi WICLIC)
- Return path capable

Frequency range:

- Loop-through 47-862 MHz
- Return path 5-30 MHz

Individual outlet DAT30M-04

10

R307111

Loop-through outlet DAT30M-11

10

R307112

Loop-through outlet DAT30M-15

10

R307113

Loop-through outlet DAT30M-19

10

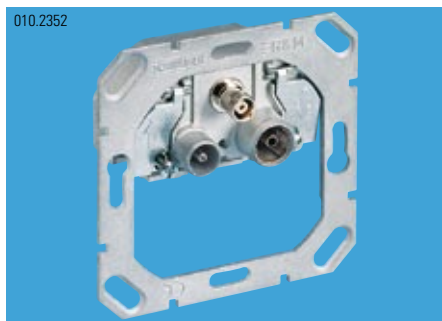
R307114

Loop-through outlet DAT30M-23

10

R307115

010.2352



Broadband Modem Outlet, 65 MHz,

Supplied:

- R/TV connections to IEC standard
- MiniDat jacks for cable modem (compatible with ©Wisi WICLIC)
- Return path capable

Frequency range:

- Loop-through 87-862 MHz
- Return path 5-65 MHz

Individual outlet DAT65M-04

10

R307116

Loop-through outlet DAT65M-11

10

R307117

Loop-through outlet DAT65M-15

10

R307118

Loop-through outlet DAT65M-19

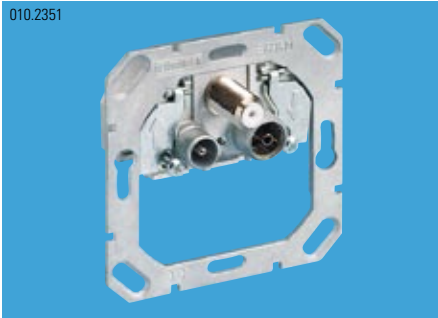
10

R307119

Loop-through outlet DAT65M-23

10

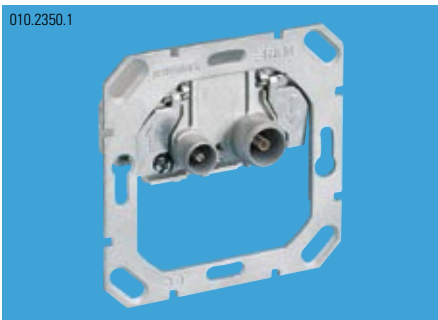
R307120



SAT + R/TV Broadband Outlet,
Supplied:
– R/TV connections to IEC standard
– F-jack for satellite receiver

Frequency range:
– R/TV, 5-862 MHz
– SAT, 950-2150 MHz

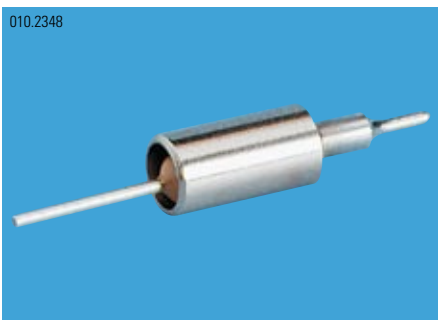
Individual outlet SAT00F-02 10 R307121



R/TV Broadbank Outlet,
Supplied:
– R/TV connections to IDC standard

Frequency range:
– R/TV, 5-862 MHz

Individual outlet RTV000-01 10 R312745
Individual outlet RTV000-04 10 R307122
Loop-through outlet RTV000-11 10 R307123
Loop-through outlet RTV000-15 10 R307124
Loop-through outlet RTV000-19 10 R307125
Loop-through outlet RTV000-23 10 R307126



Resistor 75 Ohm for multimedia outlet
– For use with loop-through outlets configured as end sockets.

10 R307153

i Not for use with stub outlets and SAT outlets. They have it built in already.

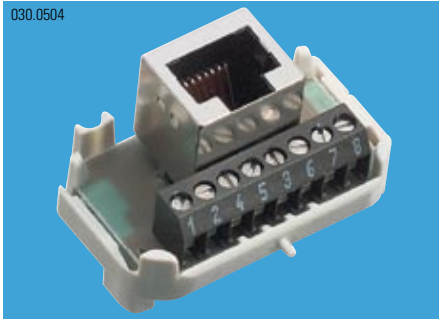


MiniDat Modem Connection Cable,
Supplied:
– Connection cable fitted with a MiniDat connector (outlet) to F-quick connector (modem).

1.5 m 1 R307106
3.0 m 1 R307108
5.0 m 1 R307109

i **Outlet definition code**
Outlet types: DAT = data, SAT = satellite, RTV = radio/TV
Return channel (MHz): 00 = no return channel, 30 = return channel 5–30 MHz, 65 = return channel 5–65 MHz
Connector type (third jack): M = MiniDat jack, F = F-jack, 0 = no additional jack
Side loss: -01, -02, -04, -11, -15, -19, -23

**Residential Cabling, Multimedia Cabling
RJ45 Inserts**



Features

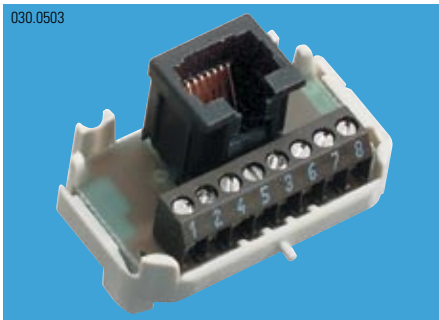
- The 1- and 2-port RJ45 inserts comply with the Cat. 3 respectively Cat. 5e requirements acc. to ISO IEC 11801, EN 50173
- Simple and time-saving shield contacting (shielded version)
- Screw terminals include wire protection
- The matching RJ45 contact numbers are shown on the screw terminals
- Terminal resistor holders also included (to snap-in)

Ordering Information

Description

PU

Part Number



Insert 1xRJ45/u, "A", 8-pole,

Supplied:

- 1xRJ45 insert, unshielded
- 2 cable ties
- Labeling kit
- Mounting instructions

Cat. 3

10

R35153

Cat. 5e

10

R35213

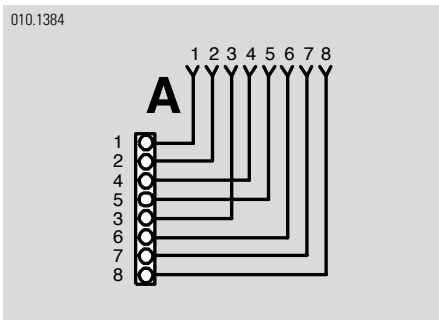
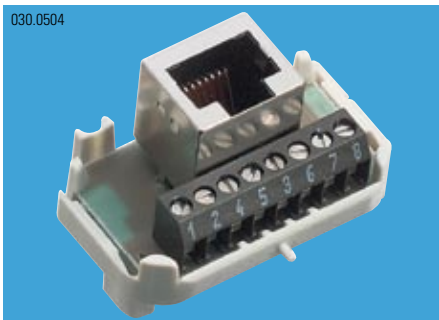


Chart "A" for Insert 1xRJ45/u, 8-pole,



Insert 1xRJ45/s, "A", 8-pole,

Supplied:

- 1xRJ45 insert, shielded
- 2 cable ties
- Labeling kit
- Mounting instructions

Cat. 3

10

R35154

Cat. 5e

10

R35214

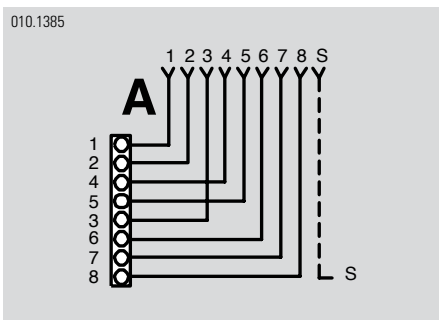
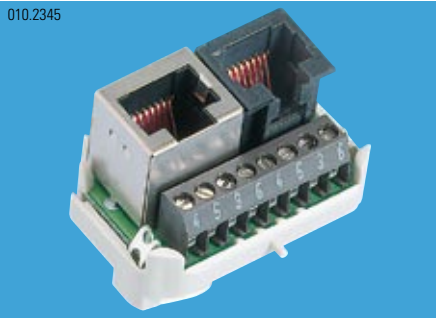


Chart "A" for Insert 1xRJ45/s, 8-pole,

010.2345



Insert 1xRJ45/u + 1xRJ45/s, "G", Ethernet/ISDN,

Supplied:

- 1xRJ45 insert, shielded und 1xRJ45 insert, unshielded
- 2 cable ties
- Labeling kit
- Mounting instructions

Cat. 5e

10

R307152

020.2127

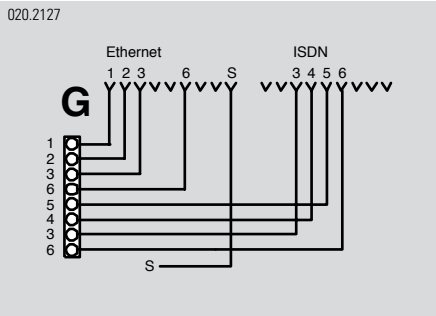
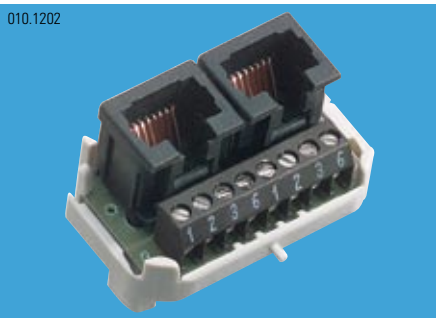


Chart "G" for Insert 1xRJ45/u + 1xRJ45/s, Ethernet/ISDN

010.1202



Insert 2xRJ45/u, "F", Ethernet,

Supplied:

- 2xRJ45 insert, unshielded
- 2 cable ties
- Labeling kit
- Mounting instructions

Cat. 5e

10

R35220

010.1390

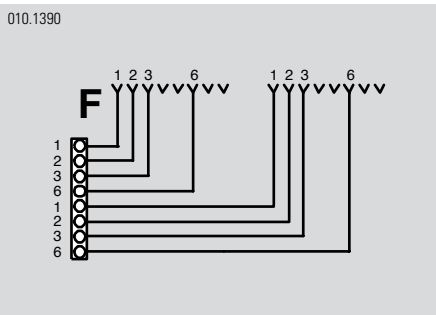


Chart "F" for Insert 2xRJ45/u, Ethernet

010.1203



Insert 2xRJ45/s, "F", Ethernet,

Supplied:

- 2xRJ45 insert, shielded
- 2 cable ties
- Labeling kit
- Mounting instructions

Cat. 5e

10

R35221

Residential Cabling, Multimedia Cabling RJ45 Inserts

010.1391

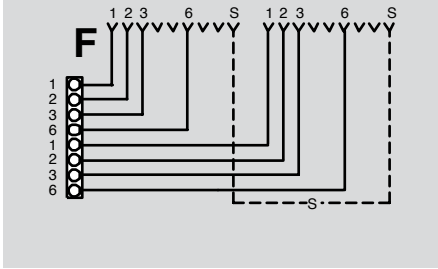
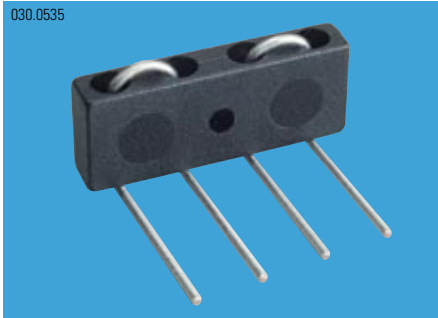


Chart "F" for Insert 2xRJ45/s, Ethernet

030.0535



Resistor ISDN-T, 2x 100 Ohm

Supplied:

- 2 x 100Ω resistor, suitable for all RJ45 inserts with screw terminals.

10

R35211



Ordering Information	Description	PU	Part Number
	<p>SM Frame 86x86, Supplied: – SM frame 86x86x50 mm (WxHxD) for surface-mounted installations of flush-mount outlets (70x70 mm with mounting plate), mounting distance 56x56 mm.</p> <p>T=50mm, white</p>	1	R307155
	<p>Faceplate DIN 50x50, Supplied: – DIN faceplate, pure white – Ready for color coding</p> <p>3x coax, pure white 3x coax + 1x RJ45, pure white 3x coax + 2x RJ45, pure white</p>	10 10 10	R307127 R307128 R307129
	<p>Faceplate Ø-58, Supplied: – Faceplate, pure white, CHE standard, – 1 blind cover, round – Ready for color coding</p> <p>3x coax, pure white 3x coax + 1x RJ45, pure white 3x coax + 2x RJ45, pure white</p>	10 10 10	R307131 R307132 R307133
	<p>FM Outlet 86x86, Supplied: – 86 x 86mm cover frame, pure white, CHE standard, – Faceplate Ø 58 mm – 1 blind cover, round – Ready for color coding</p> <p>3x coax, pure white 3x coax + 1x RJ45, pure white 3x coax + 2x RJ45, pure white</p>	1 1 1	R307136 R307137 R307138

**Residential Cabling, Multimedia Cabling
Faceplates for Multimedia Outlets**



Faceplate Edizio 60x60,

- Supplied:
- Faceplate 60 x 60 mm, pure white
 - 1 blind cover, round
 - Ready for color coding

3x coax, pure white	10	R307140
3x coax + 1x RJ45, pure white	10	R307141
3x coax + 2x RJ45, pure white	10	R307142



FM Outlet Edizio 88x88,

- Supplied:
- 88 x 88 mm cover frame, pure white
 - Faceplate 60 x 60 mm,
 - 1 blind cover, round
 - Ready for color coding

3x coax, pure white	1	R307144
3x coax + 1x RJ45, pure white	1	R307145
3x coax + 2x RJ45, pure white	1	R307146



SM Outlet Edizio 78x78,

- Supplied:
- SM frame 78 x 78 x 56 mm (LxWxH), pure white
 - Faceplate 60 x 60 mm
 - 1 blind cover, round
 - Ready for color coding

3x coax, pure white	1	R307148
3x coax + 1x RJ45, pure white	1	R307149
3x coax + 2x RJ45, pure white	1	R307150



Blind Cover,

- To cover the third jack when using 2-port outlets or to serve as dust cover for MiniDat jacks.

round	10	R307154
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Matching Accessories							
<p>010.1713</p>							
<p>010.2357.1</p>							
Page CU 193/234							

010.2340



Features

- For use in surface-mounted, hollow walls, and flush-mounted installations
- Ready for R&M installation kits
- Door features air slots
- Door can be fitted either right or left

Ordering Information

Description

PU

Part Number

010.2340



SM Distributor Volta, size 4,

- Size 4, 4 rows, RAL 9010
- Supplied:
 - Bottom
 - SM frame 305 x 640 x 96.5 mm (WxHxD)
 - Special door featuring air slots
 - Small material

pure white, empty

1

R306183

010.2341



Hollow Wall Distributor Volta, size 4,

- Size 4, 4 rows, RAL 9010
- Supplied:
 - FM wall housing 330 x 692 x 90 mm (WxHxD)
 - Doorframe 348 x 711 x 9 mm (WxHxD)
 - Special door featuring air slots
 - Small material

pure white, empty

1

R306185

010.2341



FM Distributor Volta, size 4,

- Size 4, 4 rows, RAL 9010
- Supplied:
 - FM wall housing 330 x 692 x 90 mm (WxHxD)
 - Doorframe 348 x 711 x 9 mm (WxHxD)
 - Special door featuring air slots
 - Small material

pure white, empty

1

R306187

**Residential Cabling, Multimedia Cabling
DRM 45**



The DRM adapter has been specifically developed to ensure convenient integration of data technology into 35mm standard top hat rails (DIN EN 50 022). It now offers universal applicability, saves space for its ideal format and is exceptionally easily mounted. The result is an effective and convincing support of the horizontal and vertical integration of system components.

Ordering Information

Description

PU

Part Number



DRM 45
Supplied:
– DRM adapter-housing
– Top cover
– Labeling strip
– Instruction manual

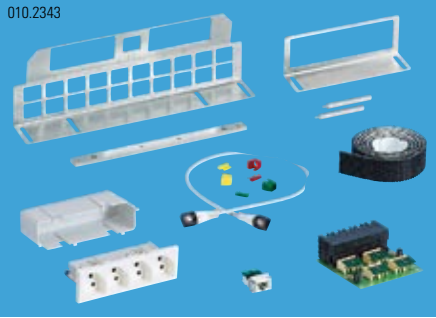
10

R314000

i Suitable for RJ45 connection modules and fiberoptic connectors with support plates.

Matching Accessories							
 010.2858 010.2860	 010.2857 090.2213	 010.2859 020.0700	 010.1885.1 010.2982	 020.0975 020.0976	 010.1880.1 010.3088	 010.2134 010.0934	
Page CU 28/28	Page CU 33/33	Page CU 34/FO 37	Page CU 193/194	Page CU 197/197	Page CU 200/200	Page CU 205/171	

010.2343



The installation kit includes all components that are required to equip distributors.

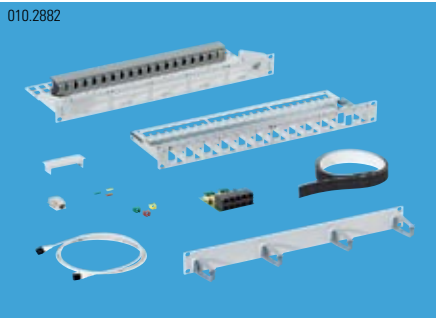
Ordering Information

Description

PU

Part Number

010.2882



Installation Kit 19"

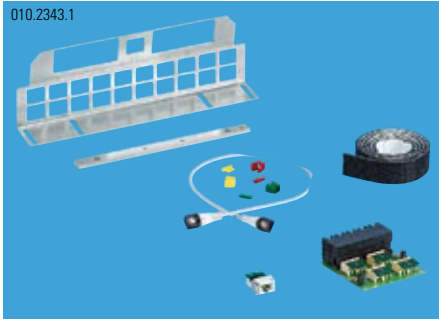
- For all standard 19" housings.
- Supplied:
 - 19" 1U cable management panel
 - 19" 1U voice panel including labeling kit
 - 19" 1U patch panel, 24xRJ45, empty, including labeling kit
 - 2 19" mounting kits
 - 4 blind covers for voice panels
 - FLF faceplate, 2x1-port, white
 - Faceplate 2xRJ45, white, 45x45 mm
 - Blind cover, Universal, white
 - 25 x 1000 mm piece of Velcro tape
 - Connection module Cat. 5e, 1xRJ45
 - 16 connection modules Cat. 5e, 1xRJ45, Snap-in
 - Connection module, 10xRJ45, ISDN/bus
 - 15 patch cords Cat. 5e
 - 20 Snap-in coding clips of each color; green, red, yellow
 - 20 color codings of each color, green, red, yellow
 - Installation instructions

shielded
unshielded

1
1

R309118
R309119

**Residential Cabling, Multimedia Cabling
Installation Kit**



Installation Kit Volta, large,

– For the Home Wiring Distributor Volta.

Supplied:

- Angled module mounting plate for max. 20 connection modules RJ45 (Snap-in) and up to 2 connection modules 10 x RJ45
- 25 x 1000 mm piece of Velcro tape
- 2 M3 spacers L50mm / hexagonal, male thread
- Fastening rail
- 11 connection modules Cat. 5e, 1xRJ45, Snap-in
- Connection module 10xRJ45, ISDN/bus
- 6 patch cords Cat. 5e
- 10 Snap-in coding clips of each color; green, red, yellow
- 10 color codings of each color; green, red, yellow
- Installation instructions

shielded	1	R309690
unshielded	1	R309689

Matching Accessories							
010.2023.1 	010.1626 	010.2040 					
010.2022.2 	010.1713 						
Page CU 30/30	Page CU 90/193	Page CU 183					

010.2354



Features

- Ideal for CATV and MATV installations
- Screening factor > 110 dB (EN 50083-2/A1 Class A compliant)
- Return channel capable
- Inner conductor DC-blocked
- Connections in F-technology
- Sturdy, corrosion-proof, die-cast housing
- Light and compact construction
- Additional plastic cable holder for routing cables through

Ordering Information

Description

PU

Part Number

010.2354



CATV Coax Kit, 4-port,

- Supplied:
- 4-port splitter
 - 5 F-connectors
 - 4 ellbow connectors
 - 2 terminating connectors 75 Ω

small

1

R307242

010.2353



CATV Coax Kit, 8-port,

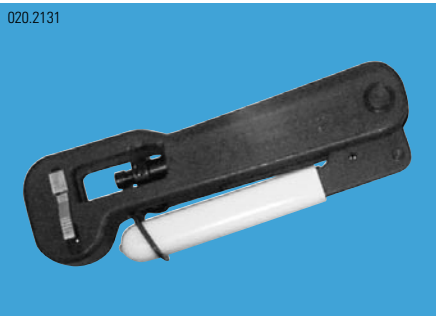
- Supplied:
- 8-port splitter
 - 9 F-connectors
 - 9 ellbow connectors
 - 4 terminating connectors 75 Ω

large

1

R307243

020.2131



Crimp Tool CZ 2,

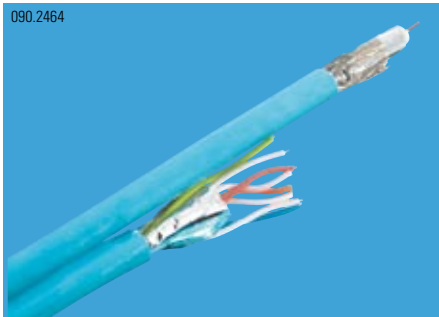
- Tool that presses F-connectors neatly into CATV Coax kits.

for F-connector

1

R307266

**Residential Cabling, Multimedia Cabling
Installation Cables**



Ordering Information	Description	PU	Part Number	
	<p>Installation Cable, Cat. 5e, U/UTP, Supplied:</p> <ul style="list-style-type: none"> – Cat. 5e, U/UTP cable – 100 Ω impedance – Data transmission frequencies of up to 200 MHz <p>4P, PVC, 500 m 4P, LSZH, 500 m 4P, PVC, 305 m 4P, LSZH, 305 m</p>	<p>500 500 305 305</p>	<p>R35044 R35045 R35291 R35292</p>	<p>● ● ● ●</p>
	<p>Installation Cable, Cat. 5e, SF/UTP, Supplied:</p> <ul style="list-style-type: none"> – Cat. 5e, SF/UTP cable – Aluminum foil and tin-coated copper braid shielding – 100 Ω impedance – Data transmission frequencies of up to 200 MHz <p>4P, PVC, 500 m 4P, LSZH, 500 m 4P, LSFZRZ, 500 m</p>	<p>500 500 500</p>	<p>R35052 R302089 R35053</p>	<p>● ● ●</p>
	<p>Installation Cable, Cat. 5e, F/UTP, Supplied:</p> <ul style="list-style-type: none"> – Cat. 5e, F/UTP cable – Aluminum foil shielding – Tin-plated copper drain wire – 100 Ω impedance – Data transmission frequencies of up to 200 MHz <p>4P, PVC, 500 m 4P, LSZH, 500 m 4P, LSFZRZ, 500 m</p>	<p>500 500 500</p>	<p>R35048 R35049 R302039</p>	<p>● ● ●</p>

010.2344



Coax Installation Cable, high q. KOX 996,

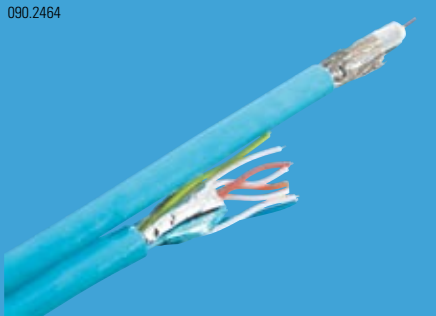
- Offers a screening factor of > 90 dB, Class A, for its high-end shielding.
- Particularly suitable for use with SAT and cable TV installations, and wherever potential sources of interference, e.g. DECT telephones, radiowaves or other exist.

100 m

100

R307110

090.2464



Hybrid Cable, Real10 Cat. 6 + Coax, S/FTP,

Supplied:

- Real10 Cat. 6, S/FTP cable
- Aluminum foil shielding
- Tin-plated copper drain wire
- 100 Ω impedance

Coax Cable

- Screening factor > 90 dB

4P, LSZH, 100 m

100

R312769

Broadband modem outlets:

30 MHz und 65 MHz

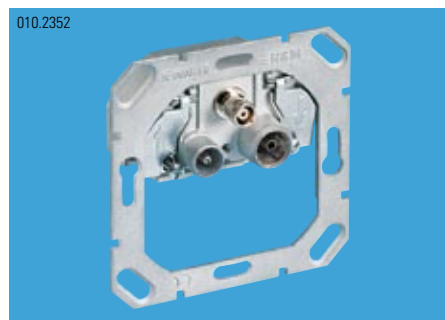
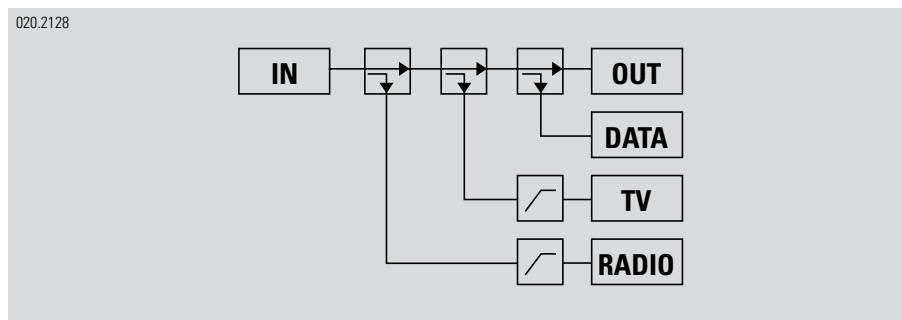


Chart:

Broadband modem outlets 30 MHz and 65 MHz.



Broadband Modem Outlet, 30 MHz

Electrical values		DAT30M				
		-04	-11	-15	-19	-23
Frequency range [MHz]	DATA	5 - 862	5 - 862	5 - 862	5 - 862	5 - 862
	TV	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
	FM	47 - 862	47 - 862	47 - 862	47 - 862	47 - 862
Through loss [dB]	5 MHz	n.a.	< 4.0	< 2.3	< 1.0	< 1.0
	50 MHz	n.a.	< 3.3	< 1.8	< 1.0	< 1.0
	862 MHz	n.a.	< 4.5	< 2.4	< 2.0	< 2.0
Side loss TV [dB]	5 MHz	40	53	55	61	61
	50 MHz	4	11	15	19	23
	862 MHz	4	11	15	19	23
Mutual loss at 1 outlet [dB]	5 - 30 MHz	≥ 55	≥ 60	≥ 60	≥ 60	≥ 60
	30 - 47 MHz	≥ 20	≥ 40	≥ 44	≥ 44	≥ 44
	30 - 300 MHz	≥ 20	≥ 40	≥ 44	≥ 44	≥ 44
	300 - 862 MHz	≥ 20	≥ 30	≥ 40	≥ 40	≥ 40
Screening factor [dB]	47 - 300 MHz VHF	85	85	85	85	85
	300 - 862 MHz UHF	75	75	75	75	75
Return loss [dB]	5 - 40 MHz IN/OUT	18	18	18	18	18
	40 - 862 MHz IN/OUT	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo
	5 - 40 MHz R/TV	14	14	14	14	14
	40 - 862 MHz R/TV	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo

Mechanical data (for all multimedia outlets)

	Data / value
Clamping surface for inner conductors of coax cables:	0.5 - 1.3 mm
Overall diameter coax cables:	≤ 7.5 mm

Broadband Modem Outlet, 65 MHz

Electrical values		DAT65M -04	DAT65M -11	DAT65M -15	DAT65M -19	DAT65M -23
Frequency range [MHz]	DATA	5 - 862	5 - 862	5 - 862	5 - 862	5 - 862
	TV	87 - 862	87 - 862	87 - 862	87 - 862	87 - 862
	FM	87 - 862	87 - 862	87 - 862	87 - 862	87 - 862
Through loss [dB]	5 MHz	n.a.	< 4.5	< 2.3	< 1.0	< 1.0
	50 MHz	n.a.	< 3.5	< 1.8	< 1.0	< 1.0
	862 MHz	n.a.	< 4.5	< 2.4	< 2.0	< 2.0
Side loss TV [dB]	5 MHz	40	53	55	61	61
	50 MHz	4	11	15	19	23
	862 MHz	4	11	15	19	23
Mutual loss at 1 outlet [dB]	5 - 30 MHz	≥ 50	≥ 60	≥ 60	≥ 60	≥ 60
	30 - 47 MHz	≥ 20	≥ 40	≥ 44	≥ 44	≥ 44
	30 - 300 MHz	≥ 20	≥ 40	≥ 44	≥ 44	≥ 44
	300 - 862 MHz	≥ 20	≥ 30	≥ 40	≥ 40	≥ 40
Screening factor [dB]	47 - 300 MHz VHF	85	85	85	85	85
	300 - 862 MHz UHF	75	75	75	75	75
Return loss [dB]	5 - 40 MHz IN/OUT	18	18	18	18	18
	40 - 862 MHz IN/OUT	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo
	5 - 40 MHz R/TV	14	14	14	14	14
	40 - 862 MHz R/TV	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo

Broadband outlet:

SAT + R/TV

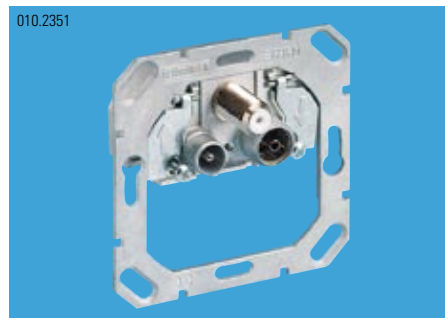
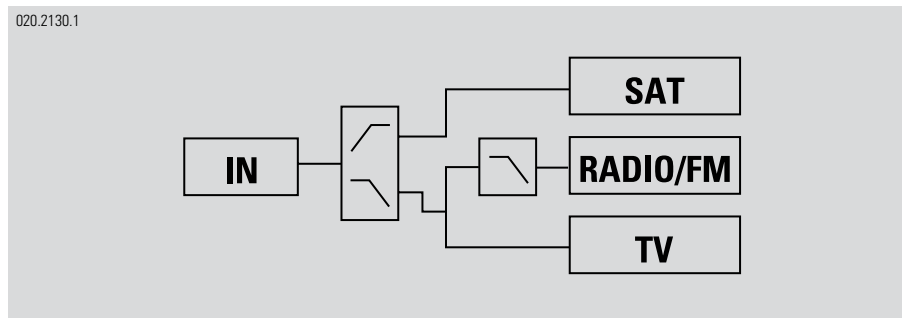


Chart:

Broadband outlet SAT + RTV



Broadband Outlet SAT + R/TV

Electrical values		SAT00F	
		-02	
Frequency range [MHz]	SAT	950 - 2150	
	TV	5 - 862	
	FM	5 - 862	
Mutual loss [dB]	5 - 700 MHz	TV	3
	700 - 862 MHz	TV	< 7
	5 - 108 MHz	FM	8
	108 - 139 MHz	FM	12
	950 - 2150 MHz	SAT	< 6
Screening factor [dB]	47 - 300 MHz	VHF	75
	300 - 470 MHz	UHF	75
	470 - 862 MHz	UHF	65
	950 - 2150 MHz	SAT	55
Return loss [dB]	5 - 40 MHz	IN	14
	40 - 862 MHz	IN	- 1.5/octo
	5 - 40 MHz	R/TV	14
	40 - 862 MHz	R/TV	- 1.5/octo

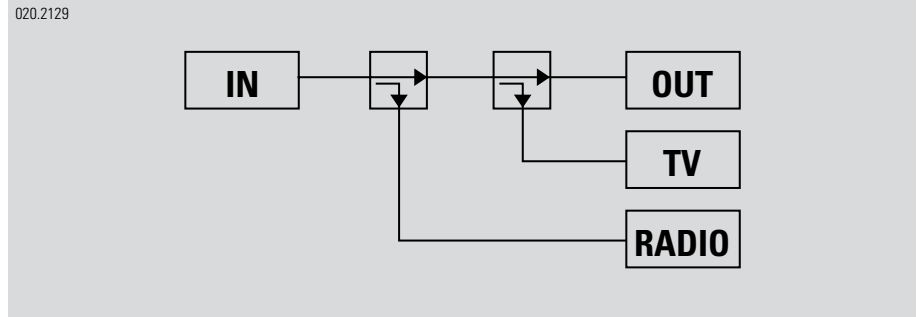
Broadband outlet:

R/TV



Chart:

Broadband outlet, R/TV



Broadband Outlet, R/TV

Electrical values			RTV000	RTV000	RTV000	RTV000	RTV000	RTV000
			-01	-04	-11	-15	-19	-23
Frequency range [MHz]	TV		5 - 862	5 - 862	5 - 862	5 - 862	5 - 862	5 - 862
	FM		5 - 862	5 - 862	5 - 862	5 - 862	5 - 862	5 - 862
Through loss [dB]	5 MHz		n.a.	n.a.	< 3.0	< 1.3	< 1.0	< 1.0
	47 MHz		n.a.	n.a.	< 3.0	< 1.3	< 1.0	< 1.0
	862 MHz		n.a.	n.a.	< 3.0	< 1.5	< 1.7	< 1.5
Side loss TV [dB]	5 MHz		1	2.5	10 - 11	15	19	23 - 23.5
	47 MHz		1	2.5	10 - 11	15	19	23 - 23.5
	862 MHz		1	2.5	10 - 11	15	19	23 - 23.5
Mutual loss at 1 outlet [dB]	5 - 47 MHz		≥ 20	≥ 20	≥ 60	≥ 44	≥ 60	≥ 60
	47 - 300 MHz		≥ 20	≥ 20	≥ 40	≥ 44	≥ 44	≥ 44
	300 - 862 MHz		≥ 20	≥ 20	≥ 30	≥ 40	≥ 40	≥ 40
Screening factor [dB]	47 - 300 MHz	VHF	85	85	85	85	85	85
	300 - 862 MHz	UHF	75	75	75	75	75	75
Return loss [dB]	5 - 40 MHz	IN/OUT	18	18	18	18	18	18
	40 - 862 MHz	IN/OUT	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo
	5 - 40 MHz	R/TV	14	14	14	14	14	14
	40 - 862 MHz	R/TV	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo	- 1.5/octo

RJ45 Inserts

Mechanical data (all RJ45 inserts)

Test criteria	Data / value
Number of RJ45 jacks	1/2
RJ45 jack complies with standard	IEC 603-7
Mating cycles	> 750
Admissible wire Ø	2 x 0.8 mm (AWG 18)

Electrical data (all RJ45 inserts)

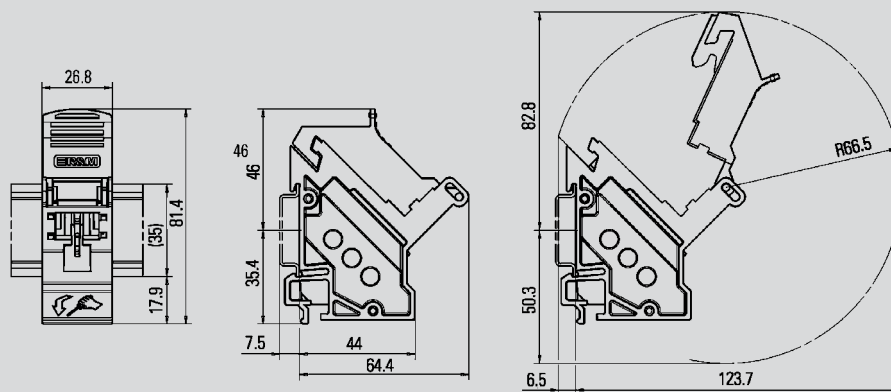
Test criteria	Data / value
Through loss (screw-terminal jack)	< 300 mΩ
Insulation resistance (500 VDC)	> 500 mΩ
Dielectric strength (VAC eff. 1 min)	1000 VAC
Current strength	1 A

Cat. 5e inserts (at 100 MHz)

Test criteria	Data / value
Attenuation	< 0.4 dB
NEXT	> 43 dB
FEXT	> 35.1 dB
Return loss	> 20 dB

DRM 45

010.3518



Electrical data

Splitter	Frequency range	4-port	8-port
		5-1000 MHz	5-1000 MHz
Transmission loss	5-40 MHz	6.8 dB	11 dB
	40-470 MHz	7.0 dB	11.5 dB
	470-1000 MHz	8.0 dB	12.5 dB
Mutual isolation	5-40 MHz	30 dB	30 dB
	40-470 MHz	30 dB	28 dB
	470-1000 MHz	25 dB	25 dB
Return loss	5-40 MHz	22 dB	21 dB
	40-470 MHz	22 dB	20 dB
	470-1000 MHz	18 dB	18 dB
Screening factor	5-1000 MHz	> 110 dB	> 110 dB

Installation Cable KOX 996

Cable properties

Test criteria	Data / value
Material inner conductor	CU
Inner conductor Ø	1.1 mm
Material dielectric	Cell PE
Shield material	Al-compound foil and 32-grade CuAg braid
Jacket Ø	7.0 mm
Jacket material	PVC
Color	white

Attenuation per 100 m	47 MHz	4 dB
	100 MHz	6 dB
	470 MHz	12 dB
	860 MHz	18 dB
	950 MHz	19 dB
	1750 MHz	26 dB
	2150 MHz	30 dB

Screening factor	2150 MHz	> 90 dB
------------------	----------	---------

Impedance	75 Ω
-----------	------

Hybrid Cable, Real10 Cat. 6 + Coax

TEL/Data elements:

Cable properties	Data / value
Conductor	bare copper wire
Wire diameter	0.56 mm
Insulation	foam-skin-polyethylene
Insulation diameter	1.35 mm
Cable construction	4 pairs + drain wire
Screening	Al-Pet-foil

Electrical properties at 20°C ± 5°C	Data / value
DC loop resistance	≤ 176 Ω/km
Velocity ration	79 %C
Capacity at 800 Hz	nom. 43 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Insulation resistance (500 V)	≥ 2000 MΩ/km
Test voltage core/core and core/screen	1000 VDC/1min.
Characteristic impedance (1-100 MHz)	100 ± 15Ω

Transmission characteristics	Data / value
Category	Cat. 6 (acc. IEC 61156-5)
Maximum installation length	100 m

Hybrid Cable, Real10 Cat. 6 + Coax

CATV elements:

Cable properties	Data / value
Conductor	bare copper wire
Wire diameter	1.00 mm
Insulation	gas injected foam PE
Insulation diameter	4.65 mm
Screening	Al-PETP-Al foil + tinned copper braid
Screening diameter	5.50 mm
Optical coverage	min. 70%

Electrical properties at 20°C ± 5°C	Data / value
Attenuation nominal at 100 m	
- 5 MHz	1.6 dB
- 10 MHz	2.3 dB
- 50 MHz	4.3 dB
- 100 MHz	6.2 dB
- 230 MHz	9.3 dB
- 470 MHz	13.5 dB
- 862 MHz	18.6 dB
- 1000 MHz	20.3 dB
- 1350 MHz	23.7 dB
- 2150 MHz	30.5 dB
- 2500 MHz	33.4 dB
- 3000 MHz	36.9 dB
Characteristic impedace	75 Ω ± 2 Ω
Screening factor (30 - 1000 MHz)	> 90 dB
Transfer impedace (5 - 30 MHz)	≤ 5 mΩ/m
Velocity ration	85 %C
DC loop resistance inner conductor	19 Ω/km
DC loop resistance outer conductor	12 Ω/km
Mutual capacitance	52 pF/m
Return loss	
- 10 to 450 MHz	> 24 dB
- 450 to 1000 MHz	> 20 dB
- 1000 to 3000 MHz	> 18 dB

POF Plastic Optical Fiber



POF: technology and advantages of plastic fiber

POF (Plastic Optical Fiber) is an optical fiber made of plastic. The core is up to 1000 μm considerably thicker than in fiber optics and for the most part consists of polymethyl methacrylate (PMMA) and is enveloped by a thin cladding coating of fluorated PMMA that serves as a reflection layer. The convenient 650 nm window (red light visible) is used for the transmission of technical applications. The polymer fiber attenuates light more than fiber optic. Fast Ethernet and Gigabit Ethernet can be transmitted over distances from 50 to 100 meters.

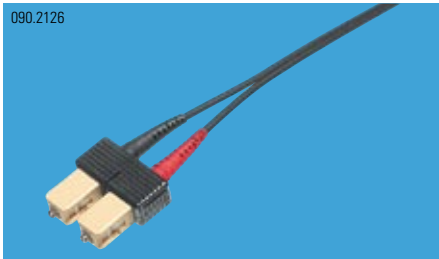
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3



4



5



6



7



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9



Products

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Products

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**POF: technology and advantages of plastic fiber**


POF (Plastic Optical Fiber) is an optical fiber made of plastic. The core is up to 1000 μm considerably thicker than in fiber optics and for the most part consists of polymethyl methacrylate (PMMA) and is enveloped by a thin cladding coating of fluorated PMMA that serves as a reflection layer. The convenient 650 nm window (red light visible) is used for the transmission of technical applications. The polymer fiber attenuates light more than fiber optic. Fast Ethernet and Gigabit Ethernet can be transmitted over distances from 50 to 100 meters.

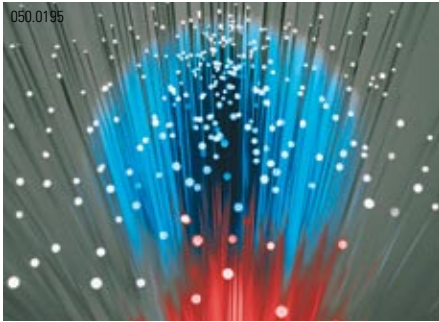
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010.2936

get more

- Know-how in fiber optic
- Cost-benefit advantage
- Serviceable solutions
- Modular systems
- Convenient installation

 **R&M**



Features

- Direct connector
- Compact, stable configuration
- 2.2 mm PE tight buffer
- The Simplex/Duplex tight buffer cable belongs to a product range of connection cables, which are used as connection cables, patch cords or for connections within buildings.

Ordering Information	Description	PU	Part Number
<p>090.2189</p>	<p>SI-POF Duplex Cable, 2x980/1000/2200 NA0.5 2x980/1000/2200 NA0.5</p>	<p>100 500</p>	<p>R311773 R313798</p>
<p>090.2405</p>	<p>SI-POF Duplex Cable, – Outer jacket: PE 2x980/1000/2200 NA0.5, white</p>	<p>100</p>	<p>R314326</p>
<p>090.2188</p>	<p>SI-POF Industrial Cable, – Outer jacket: PUR 2x980/1000/2200 NA0.5</p>	<p>250</p>	<p>R312570</p>
<p>090.2187</p>	<p>SI-POF Simplex Cable, 1x980/1000/2200 NA0.5</p>	<p>100</p>	<p>R311774</p>

**POF Plastic Optical Fiber
POF SC-RJ Connectors**



Features

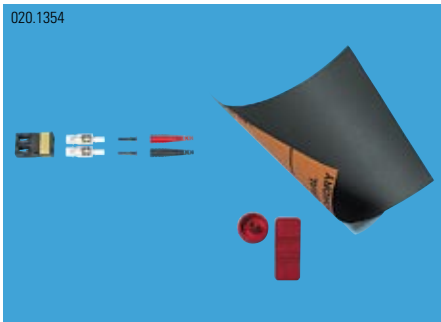
- Screw ferrule connectors of the SC-RJ type for 2.2 mm POF cables
- Push-pull system
- 2.5-mm precision screw ferrules
- Low insertion loss
- No special tools needed; field assembly
- Easy to handle and quickly installed

Ordering Information

Description

PU

Part Number



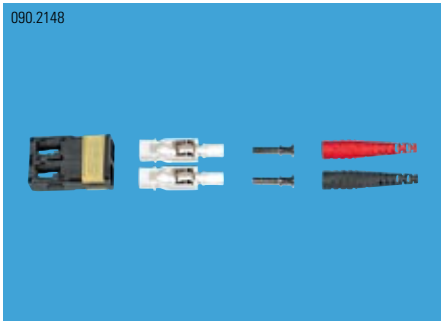
POF Connector + SC-RJ Mounting Kit,

- Supplied:
- SC-POF interior housing
 - SC-POF ferrule
 - SC-RJ connector housing
 - Boot
 - Instruction manual
 - Turning and clamping tool
 - Sand paper

980/1000/2200 NA0.5

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R311900



POF SC-RJ Connector,

- Supplied:
- SC-POF interior housing
 - SC-POF ferrule
 - SC-RJ connector housing
 - Boot

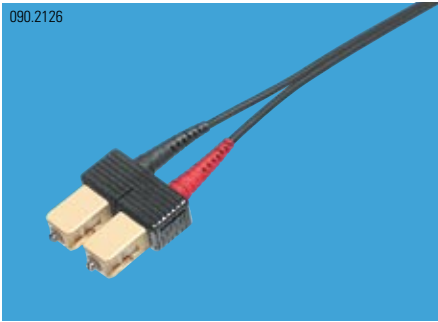
980/1000/2200 NA0.5

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R311901

Matching Modules and Accessories

<p>020.0700</p>	<p>010.2983</p>						
<p>090.2139</p>	<p>Page CU 194</p>						



Features

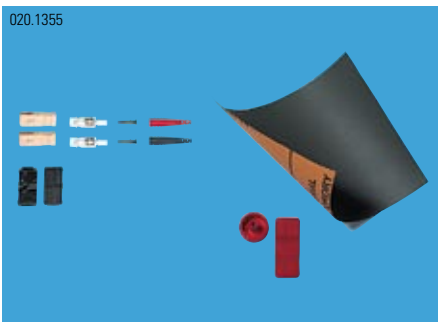
- Screw ferrule connectors of the SC type for 2.2 mm POF cables
- Push-pull system
- 2.5-mm precision screw ferrules
- Low insertion loss
- No special tools needed, field assembly
- Easy to handle and quickly installed

Ordering Information

Description

PU

Part Number



POF Connector + Mounting Kit SC duz,

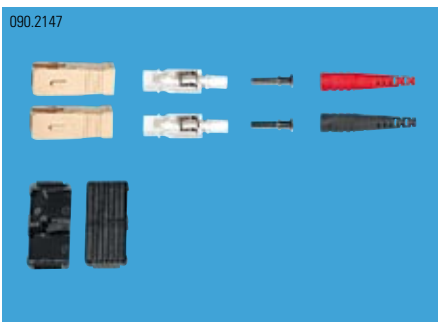
Supplied:

- SC-POF interior housing
- SC-POF ferrule
- SC connector housing with Duplex clip
- Instruction manual
- Turning and clamping tool
- Sand paper

980/1000/2200 NA0.5

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R311899



POF Connector SC duz,

Supplied:

- SC-POF interior housing
- SC-POF ferrule
- SC connector housing featuring Duplex clip
- Boot

980/1000/2200 NA0.5

10

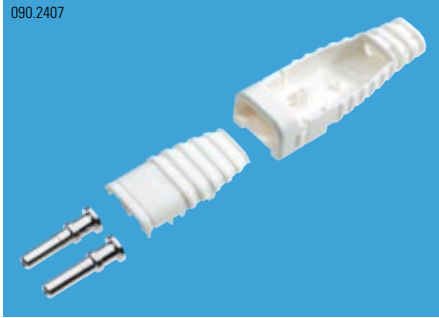
R311902

Matching Modules and Accessories

<p>090.2438</p>	<p>020.0700</p>						
<p>090.2443</p> <p>Page FO 36/37</p>	<p>Page FO 37</p>						

POF Plastic Optical Fiber
POF SMI Connectors

090.2407



Features

- Screw ferrule connectors of the SMI type for 2.2 mm POF cables
- 2.5-mm precision screw ferrules
- Low insertion loss
- No special tools needed; field assembly
- Easy to handle and quickly installed

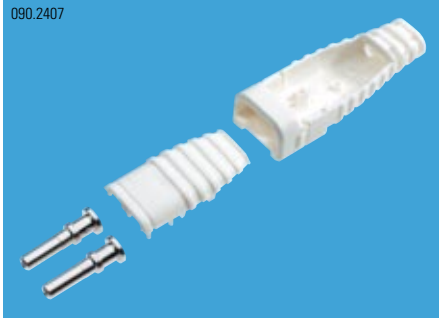
Ordering Information

Description

PU

Part Number

090.2407



POF Connector SMI,

Supplied:

- POF ferrule
- SMI top housing part
- SMI bottom housing part

The 10-piece packing unit includes:

- Turning tool
- Clamping tool
- Instruction manual

980/1000

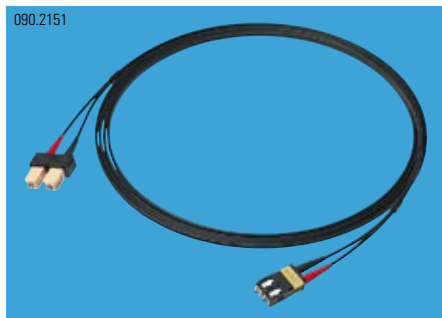
10

R313657



Ordering Information	Description	PU	Part Number
	<p>POF Transceiver, Supplied: - - 13 dB/m optical output power - - 22 dB/m optical sensitivity - 125 MBit/s transmission rate - + 3.3 V operating voltage - PECL inputs/outputs - Signal detect (SD) output - Suitable for 1 mm POF</p>		
	<p>650 nm</p>	10	R312891
	<p>POF Fast Ethernet, Media Converter without Connector Supplied: - POF media converter - Power supply unit 230V</p>		
	<p>POF Fast Ethernet, Media Converter incl. Connector Supplied: - POF media converter - POF SMI connector - Power supply unit 230V</p>		
		1	R314325

**POF Plastic Optical Fiber
POF Patch Cords**



Features

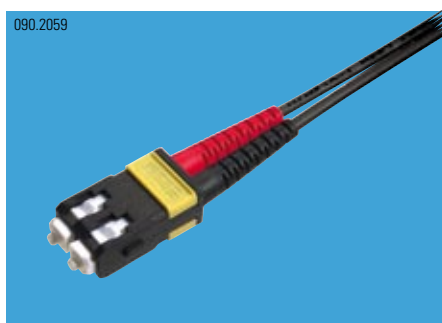
- Available in different lengths
- Simplex and Duplex patch cords
- PE 2.2 mm cable jackets
- Various connector types and hybrid cables available
- Fiber quality: 980/1000/2200 μm SI-POF, NA0.5
- Typical attenuation: ≤ 0.5 dB

Ordering Information

Description

PU

Part Number

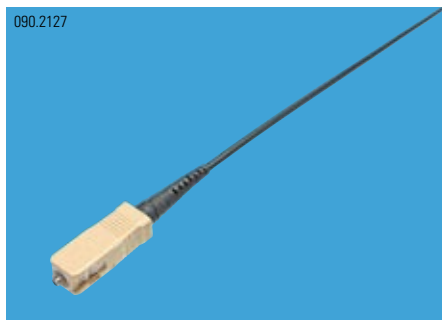


POF Patch Cord, SC-RJ - SC-RJ,

duz 980/1000/2200, 3 m

1

R311852

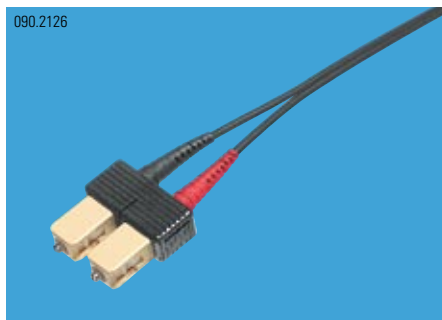


POF Patch Cord, SC-Simplex - SC-Simplex,

si 980/1000/2200, 3 m

1

R311884



POF Patch Cord, SC-Duplex - SC-Duplex,

duz 980/1000/2200, 3 m

1

R311855



POF Patch Cord, F-07 - F-07,

980/1000/2200, 1 m

1

R308589

980/1000/2200, 2 m

1

R308591



Available on request:

POF patch cord 2.2 mm, F-07 – SMI, lengths: 1 m, 2 m.

010.3527



POF Patch Cord, F-07 - F-05,

– Also serves as measuring cable for the RCC45 POF testing equipment.

1 m

1

R308854

010.3528



POF Patch Cord, SC-Simplex - F-05,

1 m

1

R312189

i **Available on request:**
POF patch cord, SMI – SMI

**POF Plastic Optical Fiber
POF SC-RJ Connectors, IP67**



Features

- Push-pull system
- 2.5 mm metal ferrules
- Low insertion loss
- Twist-proof and field-terminated
- Includes color coding (white, orange, yellow, blue)
- IP67 dust cover and pulling support
- Connector system in Small Form Factor design for industrial applications.

Ordering Information

Description

PU

Part Number



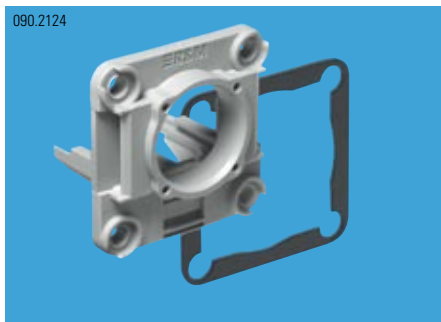
Pre-terminated Field Cords fitted with SC-RJ

Supplied:

- Installation cable (red) fitted with an SC-RJ IP67 connector on either end or
- Installation cable one end fitted with a SC-RJ IP67 connector
- Cable 2x 980/1000/2200 NA0.5, halogen-free
- Dust cover
- Pulling support



Customer-tailored lengths available on request.



Mounting Frame IP67

- Compatible with SC-RJ and RJ45 one-channel module.

Supplied:

- Mounting frame
- Gasket

5

R309588



FO Adapter SC-RJ IP67, PhBr

Supplied:

- 1 adapter including mounting plate for IP67
- 4 dust covers

12

R309641



Protective Cover for Mounting Frame IP67

- Cover protecting the contact insert in the adapter frame or the sleeve housing.

5

R309589

010.3209



Color Coding for Mounting Frame IP67

– Color coding clips suitable for RJ45 IP67 connectors, SC-RJ IP67 connectors and adapter frames.

Supplied:

- 50 coding clips, orange
- 50 coding clips, blue
- 50 coding clips, white
- 50 coding clips, yellow

POF Plastic Optical Fiber Tools and Accessories

010.2769



Features

- Easy handling
- 2 ferrules ready in less than 2 minutes
- Lightweight and compact design
- No power supply needed
- No gluing, no crimping
- Allows repeated use of the ferrules
- Suitable for SC Duplex, SC-RJ, SC-RJ IP67, SMI, RCC45

Ordering Information

Description

PU

Part Number

010.2769



POF Toolbox,

- For the field-assembly of POF ferrules.

Supplied:

- Stripping tool
- Spare blades
- Ferrules assembly kit
- Polishing plate
- Hard metal plate
- Paper clips
- Sanding sheet
- Polishing sheet
- Cleaning tissues
- Instruction manual

complete

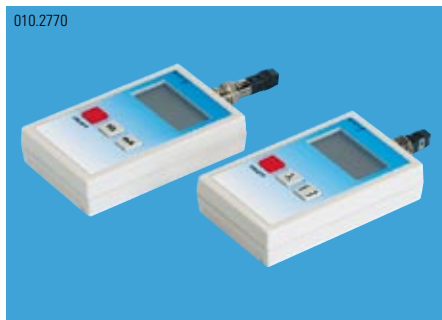
1

R308366



Does not include the RCC45 crimping pliers for power contacting and POF test equipment.

010.2770



POF Test Equipment

- For measuring the attenuation of POF connections on the wavelength of 650 nm.

Supplied:

- Source (with F-05 adapter)
- Power meter (with F-05 adapter)
- Instruction manual

1

R308604



Does not include test cable F-07 - F-05, 1 m.

010.3400



POF Ferrule Assembly Kit

Supplied:

- Clamping tool
- Turning tool/polishing plate

1

R308260

010.2773



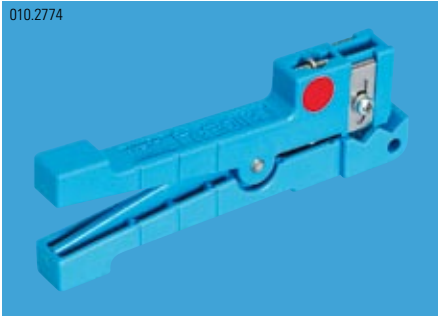
POF Polishing Plate

- 4-hole polishing plate with hard metal plate for 2.5mm POF ferrules.

1

R308419

010.2774



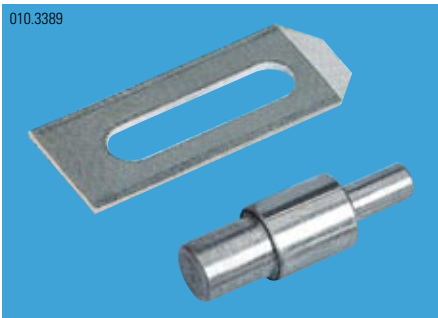
POF Stripping Tool

- Special 2-blade tool for cutting and stripping in one single action.
- Suitable for fiber types 980/1000/2200.

1

R308421

010.3389



POF Spare Blades

- Special blades for R308421.
- Suitable for fiber types 980/1000/2200

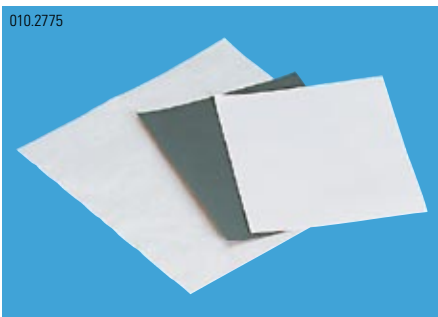
Supplied:

- 10 spare blades
- 1 setting gage
- Installation manual

1

R308367

010.2775



POF Consumables

- POF Sanding Sheet**
- POF Polishing Sheet**

10

R308360

10

R308362

Specifications SI-POF Cable (980/1000/2200 NA0.5)

Environmental / mechanical characteristics

Parameter	Unit	Cable type		
		Simplex	Duplex	Industrial
Operational temperature	°C	- 55 to + 85	- 55 to + 85	- 20 too + 70
Max. tensile force, on installation	N	80	160	200
Max. tensile force, permanent	N	5	10	100
Min. bending radius, on installation	mm	25	25	90
Min. bending radius, permanent	mm	25	25	60

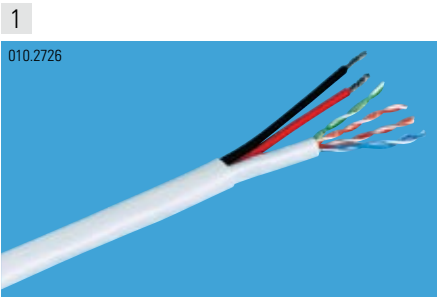
Mechanical / optical characteristics

Parameter	Unit	Type
Fiber	µm	980
Cladding	µm	1000
Cable attenuation	dB/m	< 0.22
Bandwidth	MHz x 100 m	10
Numerical aperture	[-]	0.50
PE fiber	mm	2.20



More future and more modularity

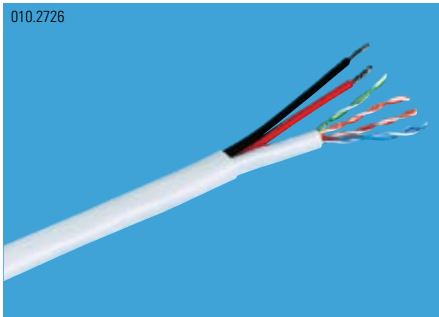
- Integration of POF and power
- Guaranteed modularity
- Long-term investment protection
- Flexible cabling solutions
- Convenient and fast installation



Products	Page
1 RCC45 Installation Cables	CU 266
2 RCC45 Connection Module and Adapters	CU 267
3 RCC45 19" 1U Patch Panel	CU 269
4 RCC45 Patch Cords	CU 270
5 Tools and Accessories	CU 272

Products	Page
6 Techn. Data RCC45 Power and POF	CU 275

RCC45
RCC45 Installation Cables

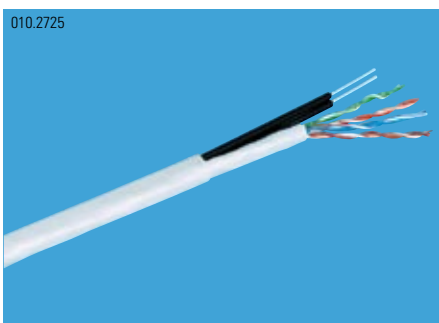


Ordering Information

Description

PU

Part Number



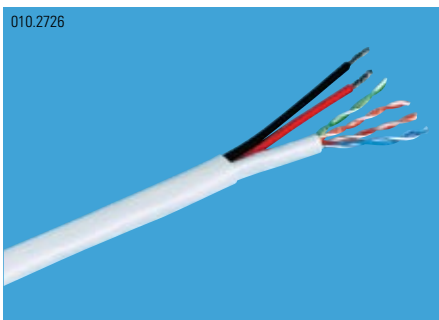
RCC45 Hybrid Cable U/UTP, Cat. 5e + POF, LSZH,

- Unshielded 100 Ohm installation cable
 - For transmission frequencies of up to 200 MHz
- Dimensions:
- 4x2x0.5 mm and 2xSI-POF 980/1000/2200

305 m

305

R308592



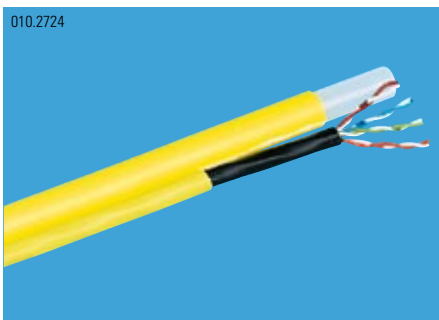
RCC45 Hybrid Cable U/UTP, Cat. 5e + Power, LSZH,

- Unshielded 100 Ohm installation cable
 - For transmission frequencies of up to 200 MHz
- Dimensions:
- 4x2x0.5 mm and 2xAWG 18 (1 mm²)

305 m

305

R308599



RCC45 Hybrid Cable U/UTP, Cat. 5e + tube, LSZH,

- Unshielded 100 Ohm installation cable
 - For transmission frequencies of up to 200 MHz
- Dimensions:
- 4x2x0.5 mm and empty tube Ø 6mm, plus drawing cord.

305 m

305

R308852



Technical data supplied on request.

010.2721



Ordering Information

Description

PU

Part Number

010.2721



Connection Module, Cat. 5e, 1x RCC45/u

- Supplied:
- RCC45 connection module with one unshielded RJ45 port
 - Dust cover
 - Cable tie
 - Instruction manual

10

R308254



010.3384



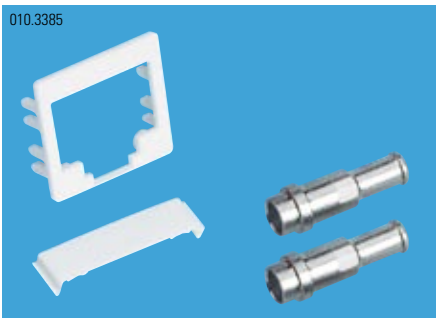
RCC45 POF Adapter

- Color: white (RAL 9010)
- Supplied:
- Adapter to hold an F-05 or F-07 connector
 - Dust covers
 - Instruction manual

10

R308255

010.3385



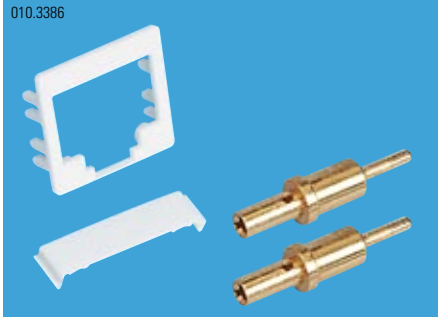
RCC45 POF Ferrule Set, 980/1000/2200

- Supplied:
- Every set includes:
- 2 RCC45 ferrules
 - RCC45 clip
 - RCC45 dust cover
- The 10-set packing unit also includes:
- Instruction manual
 - RCC45 turning tool
 - RCC45 clamping tool

10

R307419

RCC45
RCC45 Connection Module and Adapters

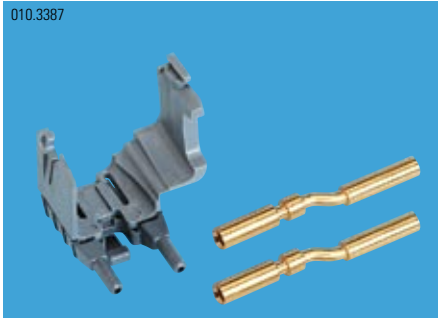


RCC45 Module Contact Set Power

Supplied:
Every set includes:

- 2 RCC45 module contacts
- RCC45 clip
- RCC45 dust cover
- Installation manual

10 R308256



RCC45 Plug Contact Set Power

Supplied:
Every set includes:

- 2 RCC45 plug contacts
- RCC45 top part of plug adapter
- RCC45 bottom part of plug adapter
- Installation manual

10 R308257



Ordering Information

Description

PU

Part Number



RCC45 19" 1U Patch Panel

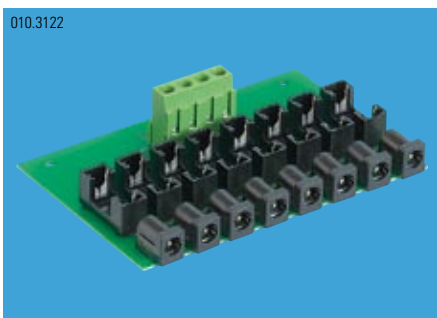
– 19" 1U patch panel for four RCC45 print modules power (max. 32 power jacks).

Supplied:

- 19" 1U patch panel
- RCC45 power print module featuring 1x8 ports (R310336)
- Label strips
- Print module fastening screws
- Wiring instructions

1

R310363



RCC45 Print Module Power,

– Print module for use with the RCC45 19" 1U power patch panel.

Electrical data:

- Input max. 32 A (4 mm²)
- Output max. 4 A / 48 V

Supplied:

- 8 power jacks, 2.5 x 5.5 mm
- 8 fuse holders 5 x 20 mm (without fuses)
- Connection 4 x 4 mm²
- Wiring instructions

1x8 ports

1

R310336



Protective Conductor Terminal

– For a simple and efficient ground connection
– Accommodates one stranded cable of max. cross section of 6 mm²

Suitable for:

- 1U 24-port metal patch panel
- 50xRJ45 voice panel
- Global system

Supplied:

- Grounding terminal
- Washer
- Nut

6 mm²

1

R302150

RCC45
RCC45 Patch Cords
POF, Power



Ordering Information

Description

PU

Part Number



POF Patch Cord, F-07 - F-05,

– Also serves as measuring cable for the RCC45 POF testing equipment.

1 m

1

R308854



POF Patch Cord, F-07 - F-07,

980/1000/2200, 1 m

1

R308589

980/1000/2200, 2 m

1

R308591



Available on request:

POF patch cord 2.2 mm, F-07 – SMI, lengths: 1 m, 2 m.



RCC45 Connection Cable Power (outlet),

Supplied:

- Side A: RCC45 power adapter
- Side B: Exchangeable DC connector set featuring adjustable polarity tips

Coax power connector:

- 2.1 x 5.50 mm
- 2.5 x 5.50 mm
- 1.7 x 4.00 mm
- 1.4 x 3.50 mm
- 1.1 x 3.00 mm
- 0.7 x 2.35 mm

Phone connector:

- 2.5 mm
- 3.5 mm

1.5 m

10

R310310

3.0 m

10

R310311

010.3123



RCC45 Patch Cord Power (panel),

Supplied:

- Side A mounted with RCC45 power adapter
- Side B mounted with power coax connector 2.5 x 5.5 mm

1.5 m

10

R310307

3.0 m

10

R310308

i Suitable for the RCC45 Print Module Power, 1 x 8 ports.

010.3120



RCC45 PoE Patch Cord, Cat. 5e, U/UTP, PVC,

- RCC45 PoE patch cord, Cat. 5e, U/UTP, PVC, connection cable for Power-over-Ethernet (IEEE 802.3af) applications.
- Two conductor pairs from the cord are routed into the RCC45 power adapter.

Electrical data:

- Nominal current: 350 mA
- Nominal voltage: 48 V

Supplied:

- Side A: RJ45 with RCC45 power adapter
- Side B: RJ45

1.5 m

10

R309668

3.0 m

10

R309670

RCC45
Tools and Accessories

010.2769



Features

- Easy handling
- 2 ferrules ready in less than 2 minutes
- Lightweight and compact design
- No power supply needed
- No gluing, no crimping
- Allows repeated use of the ferrules
- Suitable for SC Duplex, SC-RJ, SC-RJ IP67, SMI, RCC45

Ordering Information

Description

PU

Part Number

010.2769



POF Toolbox,

- For the field-assembly of POF ferrules.

Supplied:

- Stripping tool
- Spare blades
- Ferrules assembly kit
- Polishing plate
- Hard metal plate
- Paper clips
- Sanding sheet
- Polishing sheet
- Cleaning tissues
- Instruction manual

complete

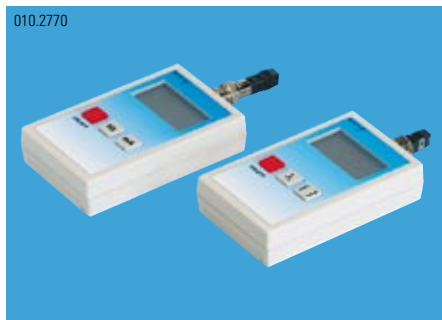
1

R308366



Does not include the RCC45 crimping pliers for power contacting and POF test equipment.

010.2770



POF Test Equipment

- For measuring the attenuation of POF connections on the wavelength of 650 nm.

Supplied:

- Source (with F-05 adapter)
- Power meter (with F-05 adapter)
- Instruction manual

1

R308604



Does not include test cable F-07 - F-05, 1 m.

010.2771



RCC45 Crimping Pliers for Power Contacts

- 4-point crimping pliers for processing power contacts in modules and connectors.

Supplied:

- Crimping pliers
- Mounting aid
- Instruction manual

1

R308853



010.3400

POF Ferrule Assembly Kit

- Supplied:
- Clamping tool
 - Turning tool/polishing plate

1 R308260

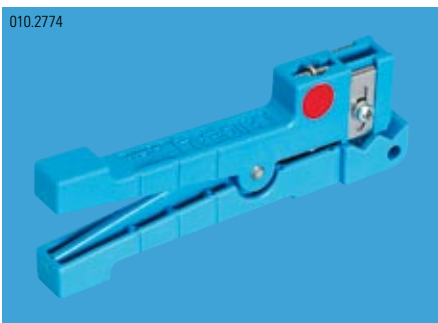


010.2773

POF Polishing Plate

- 4-hole polishing plate with hard metal plate for 2.5mm POF ferrules.

1 R308419

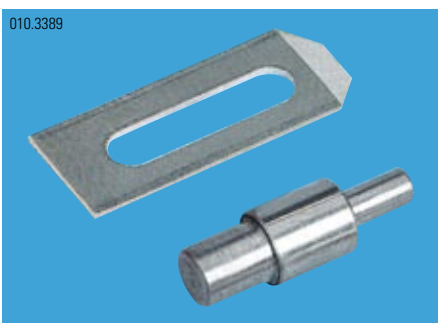


010.2774

POF Stripping Tool

- Special 2-blade tool for cutting and stripping in one single action.
- Suitable for fiber types 980/1000/2200.

1 R308421

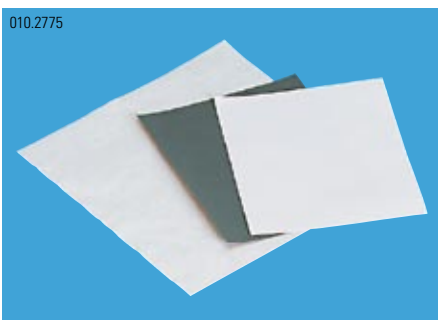


010.3389

POF Spare Blades

- Special blades for R308421.
 - Suitable for fiber types 980/1000/2200
- Supplied:
- 10 spare blades
 - 1 setting gage
 - Installation manual

1 R308367



010.2775

POF Consumables

- POF Sanding Sheet**
- POF Polishing Sheet**

10 R308360
10 R308362

RCC45
Tools and Accessories

010.2776



Module Holder Tool

– A small tool of great use.

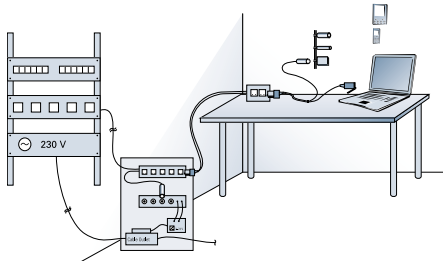
For removing three parts:

- module mounting plate
- RCC45 adapter frame POF
- clip

10

R308261

050.1136



Power Applications

RCC45 allows the integration of power cabling, with a maximum voltage supply of 50 Volts at 4 Amperes. For installation, the power contacts are inserted into the connection openings of the module or clipped to the plug.

The RCC45 modules take all the cables together to terminal equipment such as telephone systems, laptops, hand-helds, printers or scanners. The mains supply can be positioned centrally at the hub or somewhere else out of the way.

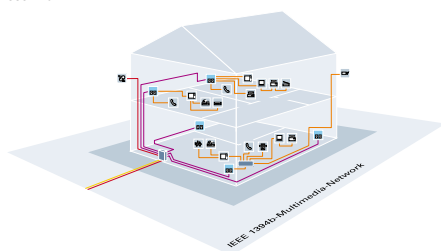
Specifications of the Power Contacts

The RCC45 power contacts are made of brass and designed for longevity and superlative reliability. The surfaces are refined with Au/Ni. Among other features, the outlet is equipped with a finger clip (Cu/Be) with excellent performance characteristics. The connector pin has a round shape ensuring a constant strength for easy plugging in and out.

RCC45 Power

Test criteria	Data / value	
Current carrying capacity:	4 A	
Equipment voltage:	up to 50 V	
Contact resistance:	10 mΩ	
Mating cycles:	500	
Surface treatment:	0.5 μm Au / 2.5 μm Ni	
Operating temperature:	- 10° C up to + 50°C	
Dielectric strength	contacts:	1000 V
	shield / environment:	1500 V
Wire diameter:	up to max.	AWG 18 (27 x 0.21)
Connection technique:		crimping or soldering

050.1137



POF Applications

RCC45 supports the use of plastic optical fiber (POF). The ferrules are inserted into the connection openings in the modules in just a few steps. With the R&M toolkit for POF installations the fiber is assembled in less than one minute and simply inserted into the socket.

Specifications of the POF

POF enables an economic and flexible realization of optical network solutions up to the desktop. The robust plastic fiber lets the vision of an all-optical network move closer. The following applications are in preparation or can already be realized:

- Ethernet over POF
- Video over POF
- IEEE 1394b over POF
- TV over POF

RCC45 POF

Test criteria

Maximum values

		Data / value
Storage temperature:		- 50°C up to + 85°C
Operating temperature:		- 40°C up to + 85°C
Installation temperature:		- 20°C up to + 70°C
Tensile strength	Single Channel:	50 N
(short term < 30 min)	Dual Channel:	100 N
Tensile strength (> 30 min)		1 N
Minimum bending radius (short term)		25 mm
Minimum bending radius		35 mm

Mechanical / optical characteristics

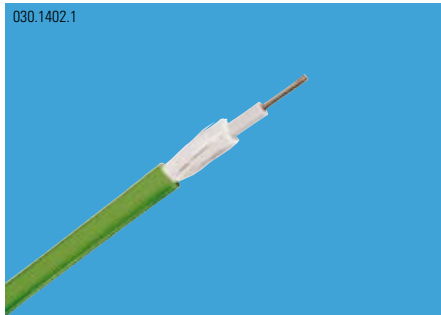
		Data / value	Typical [1]
Attenuation fiber /m:		0.12 - 0.24 dB	0.19 dB
Attenuation cable /m:		0.15 - 0.27 dB	0.22 dB
Numerical aperture (> 2 m):		0.46 - 0.50	0.47
Diameter range	Core and cladding:	0.94 - 1.06 mm	1.00 mm
	Coating:	2x2.13 - 2x2.27 mm	2x2.2 mm
Propagation delay constant /m		5.0 ns	
Refractive index	Core:	1.492	
	Cladding:	1.417	

[1] Typical data at 25°C.

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030.1402.1



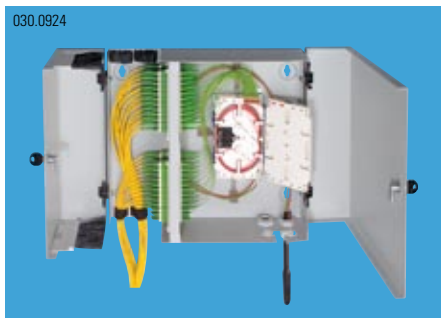
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GOF Stranded Loose Tube Cables	FO 57
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010.1774



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030.0924



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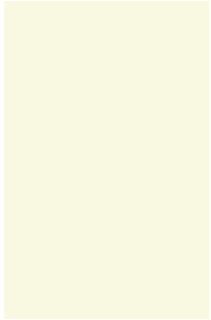
030.0620



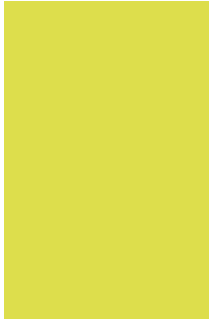
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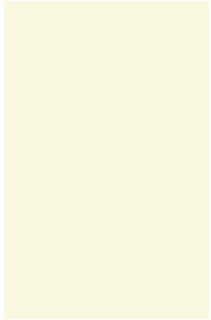
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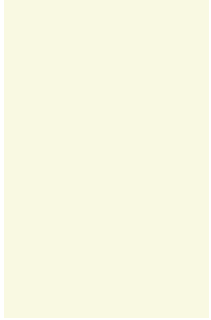
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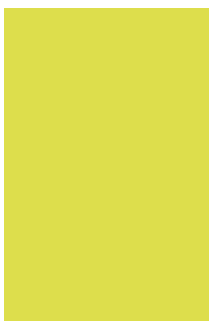
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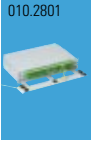
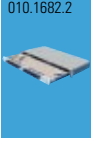
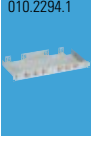

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19" System Description


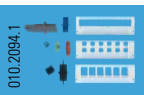






Products	Page
1 1U and 2U Versions	FO 5
2 1U and 3U Versions	FO 6

		19" Racks					Outside Cabinet
		 19" Foccos 550	 19" Foccos 900	 19" FOM Cabinet	 19" FOM Distributor	 19" Standard Cabinet/Racks	 Cross Connection Cabinet
19" 1U UniRack splice versions		yes	yes	yes	yes	yes	no
19" 1U Splice Box splice versions		yes	yes	no	no	yes	no
19" 1U AirRack splice versions		yes	yes	no	yes	yes	yes
19" 2U UniRack splice versions		yes	yes	no	no	yes	no
19" 1U FibereasyRack breakout versions		yes	yes	no	yes	yes	no
19" 1U Breakout Box breakout versions		yes	yes	no	no	yes	no
Connector Modules splice versions		no	no	no	no	no	yes with Mounting Channel

19" System Description
1U and 3U Versions

	19" Patch Panels							Distributor Box		
3U 8HP Fiberliner splice versions 	16 Port (1U) 	24 Port (1U) 	36 Port FO (1U) 	Global CU (3U) 	120 Port Global FO (3U) 	144 Port Global FO (3U) 	Small Distributor Box FO/CU IP 54 	48 Port FiberCon 48 FO 		
	no	no	yes	yes, with R30870	yes	no	no	yes	no	no
3U 8HP Fiberliner breakout versions 	no	no	yes	yes, with R30870	yes	no	yes	no	no	no
3U 7HP Connector Module splice versions 	no	no	no	no	no	yes	yes	no	no	no
1U Four-Channel splice versions 	yes	no	no	no	no	no	no	no	no	no
1U Four-Channel breakout versions 	yes	no	no	no	no	no	no	no	no	no
3U Four-Channel splice versions 	no	no	no	yes	no	no	no	no	no	no
3U Four-Channel breakout versions 	no	no	no	yes	no	no	no	no	no	no

 <p>010.2548</p> <p>8HP Front Plate for 4 Module Holders</p>	no	no	no	no	no	no	yes	no
 <p>010.2094.1</p> <p>3U 8HP FiberCon Front Plate</p>	no	no	no	no	no	no	no	yes
 <p>010.2159</p> <p>Connector E-2000™ Compact with support plate</p>	yes	no	no	yes	yes with 3U 8HP Front Platte	yes	yes with R308888 and R307832/33	yes with 3U 8HP Front Platte
 <p>020.0700</p> <p>Connector SC-RJ Compact with support plate</p>	yes	no	no	yes	yes with 3U 8HP Front Platte	yes	yes with R308888 and R307832/33	yes with 3U 8HP Front Platte
 <p>010.2159</p> <p>Connector E-2000™ Compact snap-in</p>	no	yes	no	no	no	no	no	no
 <p>020.0700</p> <p>Connector SC-RJ Compact snap-in</p>	no	yes	no	no	no	no	no	no

GOF 19" 1U and 2U Versions



Application

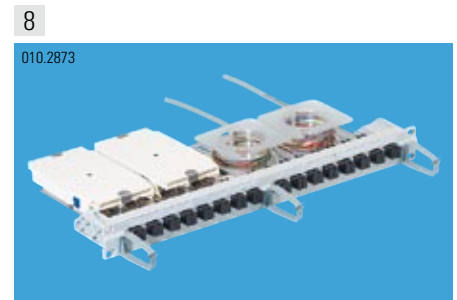
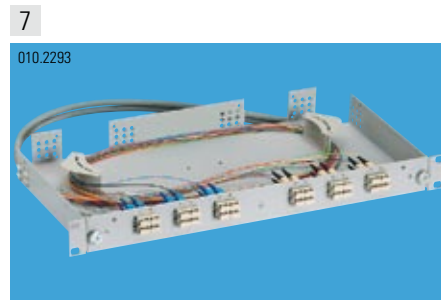
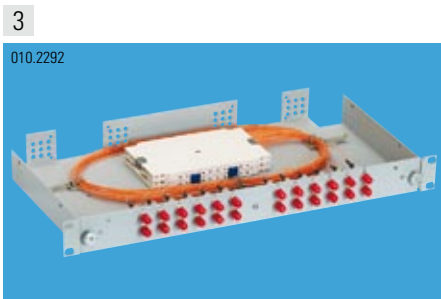
In public as well as private fiber-optic networks, R&M's 1U/2U versions are ideally suited for applications in PON network structures (Passive Optical Networks).

Splice Versions

R&M's 19" 1U/2U patch panels allow the termination of up to 96 fibers to any singlemode or multimode fiber-optic cable. Thanks to their sliding technique, connectors and pigtails can be accessed swiftly and easily from the front without having to remove the patch panel.

Breakout Versions

R&M's 19" 1U patch panels allow the termination of up to 24 fibers to any adapter. Thanks to their sliding technique, connectors can be accessed swiftly and easily from the front without having to remove the patch panel.



Products

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1 Customer Benefits	FO 9
2 GOF 19" 1U UniRack	FO 10
3 GOF 19" 1U Splice Box	FO 13
4 GOF 19" 1U AirRack	FO 14
5 GOF 19" 2U UniRack	FO 15

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6 GOF 19" 1U FibereasyRack	FO 16
7 GOF 19" 1U Breakout Box	FO 18
8 GOF 1U Four-Channel Module	FO 19



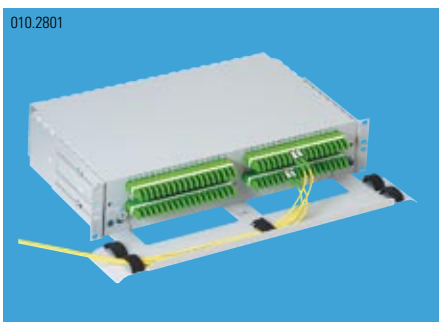
Cable entry from the rear or the side

Ensuring optimum cable or tube entry, even with distributor racks of little depth.



Superior cable management

The R&M cable management provides safe, simple and neat cable management for highest system security.



All on one patch panel (splice version)

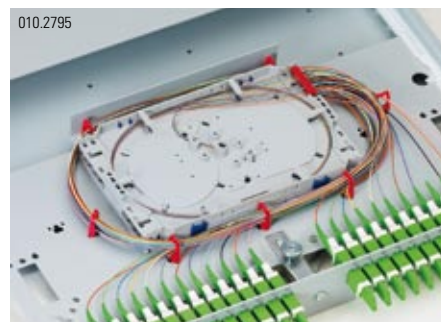
- 2.5 meters of spare loose tubes
- Patch cord routing
- 2.5 meters of spare pigtails, 1.2 meter in the splice tray
- Up to 4 stackable splice trays (19" 2U UniRack)

010.2936

get more

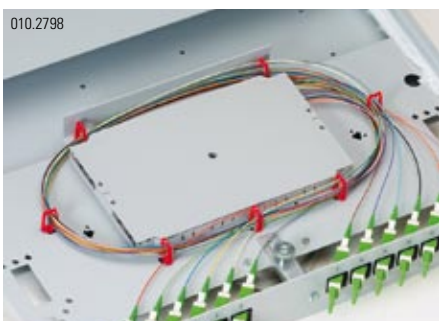
- More modularity
- More packing density
- More neatness and convenience

@ R&M



Saving time with colored pigtails

The colored E-2000™ APC 8° pigtails (primary coating and fiber cladding) make sure identification is neat and fast (above, GOF 19" 1U UniRack E-2000™ APC 8°).



Convenient service and repair work

Large fiber reserve allows repeated follow-up splicing without transmission interference.



Recessed slide-in unit

The recessed slide-in unit is continuously adjustable from 0 to 55 mm, securing the bending radius of the patch cord.

GOF 19" 1U and 2U Versions
GOF 19" 1U UniRack
(splice versions)



Features

- Up to 24 connectors on one height unit (1U)
- Simple patch panel mounting and dismounting for splicing
- Little mounting depth of 230 mm
- Universally compatible (e.g. ETSI standard compliant)
- Cable entry from the rear or from the side

Ordering Information

Description

PU

Part Number



GOF 19" 1U UniRack with, splice version,

Supplied:

- 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (zirconia ceramic alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

24xE-2000™, APC 8°, C, OS1 (9µm)	1	R30398-24-APC
36xE-2000™, APC 8°, C, OS1 (9µm)	1	R310829
24xE-2000™, PC, C, OS1 (9µm)	1	R30398-24-9
12xE-2000™ Compact, APC 8°, C, OS1 (9µm)	1	R305893
12xE-2000™ Compact, PC, C, OS1 (9µm)	1	R30396-12-9
24xSC, APC 8°, C, OS1 (9µm)	1	R301990
24xSC, PC, C, OS1 (9µm)	1	R301989
12xSC Duplex, PC, C, OS1 (9µm)	1	R303009
12xLC Duplex, APC 8°, C, OS1 (9µm)	1	R308511
24xLC Duplex, APC 8°, C, OS1 (9µm)	1	R308512
12xLC Duplex, PC, C, OS1 (9µm)	1	R308509
24xLC Duplex, PC, C, OS1 (9µm)	1	R308510
24xFC, APC 8°, C, OS1 (9µm)	1	R301991
24xFC, PC, C, OS1 (9µm)	1	R30318-24-9



GOF 19" 1U UniRack with, splice version,

Supplied:







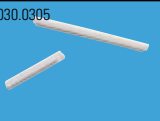







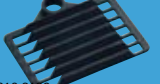
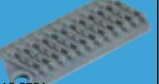
- 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual
- Front panel equipped with 45° adapter entry, (R308473 = left, R310830 = right) adapters (zirconia ceramic alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

12xE-2000™, APC 8°, C, OS1 (9µm)	1	R308473
12xE-2000™, APC 8°, C, OS1 (9µm)	1	R310830



Note: Loose tubes of a diameter above 3.5 mm can cause mounting problems. Connector pigtailed 100% tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories

010.1689 	010.1690 	010.2137 	030.1021.1 	030.0261 	030.0096.1 	030.0305 	030.0099 
010.2136 	010.2183 	010.2201 	030.1023.1 	010.2197 	030.0094 	010.2106 	010.2791 
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GOF 19" 1U and 2U Versions
GOF 19" 1U UniRack
(splice versions)



Features

- Up to 24 connectors on one height unit (1U)
- Simple patch panel mounting and dismounting for splicing
- Little mounting depth of 230 mm
- Universally compatible (e.g. ETSI standard compliant)
- Cable entry from the rear or from the side

Ordering Information

Description

PU

Part Number



GOF 19" 1U UniRack with, splice version,

Supplied:

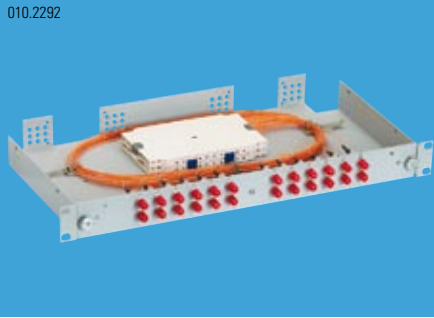
- 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

12xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R308479	●
12xE-2000™ Compact, PC, M, OM2 (50µm)	1	R308481	●
12xE-2000™ Compact, PC, M, OM3 (50µm)	1	R308065	●
12xSC-RJ, PC, M, OM1 (62.5µm)	1	R308484	●
12xSC-RJ, PC, M, OM2 (50µm)	1	R308486	●
12xSC-RJ, PC, M, OM3 (50µm)	1	R308067	●
12xSC Duplex, PC, M, OM1 (62.5µm)	1	R308493	●
12xSC Duplex, PC, M, OM2 (50µm)	1	R308495	●
12xSC Duplex, PC, M, OM3 (50µm)	1	R308066	●
12xLC Duplex, PC, M, OM1 (62.5µm)	1	R308513	●
24xLC Duplex, PC, M, OM1 (62.5µm)	1	R308514	●
12xLC Duplex, PC, M, OM2 (50µm)	1	R308515	●
24xLC Duplex, PC, M, OM2 (50µm)	1	R308516	●
12xLC Duplex, PC, M, OM3 (50µm)	1	R308517	●
24xLC Duplex, PC, M, OM3 (50µm)	1	R308518	●
24xST, PC, M, OM1 (62.5µm)	1	R308489	●
24xST, PC, M, OM2 (50µm)	1	R308491	●
24xST, PC, M, OM3 (50µm)	1	R308069	●

i Note: Loose tubes of a diameter above 3.5 mm can cause mounting problems. Connector pigtails 100% tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
010.1689 	010.1690 	010.2137 	030.1021.1 	030.0261 	030.0096.1 	030.0305 	030.0099
010.2136 	010.2183 	010.2201 	030.1023.1 	010.2197 	030.0094 	010.2136 	010.2791
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010.2292



Features

- Up to 24 connectors on one height unit (1U)
- Little mounting depth of 210 mm
- Cable entry from the rear or from the side
- Loose tube and pigtail reserve within splice box
- Labeled front panel incl. labeling strips

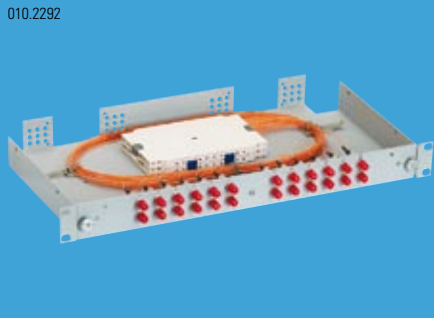
Ordering Information

Description

PU

Part Number

010.2292



GOF 19" 1U Splice Box with, splice version,

Supplied:

- 19" 1U slide-in unit, with 2 splice trays radius 30 mm, fastening material, labeling strips and installation manual (without FO cover for 19" 1U splice box and breakout box, R306775)
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

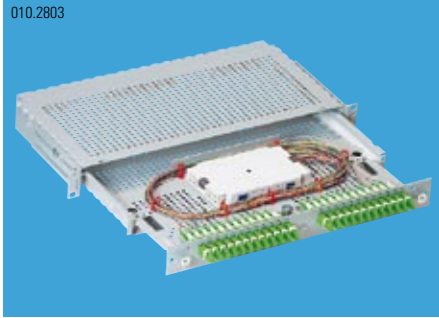
12xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R306896	●
12xE-2000™ Compact, PC, M, OM2 (50µm)	1	R306897	●
12xE-2000™ Compact, PC, M, OM3 (50µm)	1	R308063	●
12xSC-RJ, PC, M, OM1 (62.5µm)	1	R308475	●
12xSC-RJ, PC, M, OM2 (50µm)	1	R308476	●
12xSC-RJ, PC, M, OM3 (50µm)	1	R308477	●
12xSC Duplex, PC, M, OM1 (62.5µm)	1	R306893	●
12xSC Duplex, PC, M, OM2 (50µm)	1	R306894	●
12xSC Duplex, PC, M, OM3 (50µm)	1	R308064	●
24xST, PC, M, OM1 (62.5µm)	1	R306895	●
24xST, PC, M, OM2 (50µm)	1	R306899	●
24xST, PC, M, OM3 (50µm)	1	R308062	●

i Note: Loose tubes of a diameter above 3.5 mm can cause mounting problems. Connector pigtails 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories

010.1689 	010.1690 	010.2137 	030.1021.1 	030.0261 	010.2197 	030.0094 	010.2199
010.2136 Page FO 82/82	010.2183 Page FO 83/83	010.2201 Page FO 83/83	030.1023.1 Page FO 84/84	010.2291 Page FO 90/84	030.0096.1 Page FO 98/98	030.0305 Page FO 99/99	030.0099 Page FO 99/99

GOF 19" 1U and 2U Versions
GOF 19" 1U AirRack
(splice versions)



Features

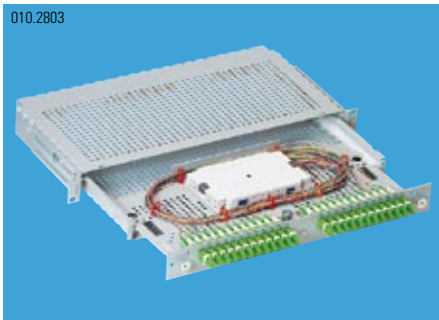
- Optimum air circulation
- Up to 24 connectors on one height unit (1U)
- Simple patch panel mounting and dismounting for splicing
- Little mounting depth of 210 mm
- Universally compatible (e.g. ETSI standard compliant)
- Cable entry from the rear or from the side

Ordering Information

Description

PU

Part Number



GOF 19" 1U AirRack with, splice version,

Supplied:

- 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (zirconia ceramic alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

24xE-2000™, APC 8°, C, OS1 (9µm)

1

R301996

i Note: Loose tubes of a diameter above 3.5 mm can cause mounting problems. Connector pigtails 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
010.1689	010.1690	010.2137	030.1021.1	030.0261	030.0096.1	030.0305	030.0099
010.2136	010.2183	010.2201	030.1023.1	010.2197	030.0094	010.2136	
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010.2801



Features

- Up to 96 connectors (LC pigtails) on two height unit (2U)
- Simple patch panel mounting and dismounting for splicing
- Little mounting depth of 230 mm
- Universally compatible (e.g. ETSI standard compliant)
- Cable entry from the rear or from the side

Ordering Information

Description

PU

Part Number

010.2801



GOF 19" 2U UniRack with, splice version,

Supplied:

- 19" 2U slide-in unit, splice tray plate with 3 splice trays radius 40 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (zirconia ceramic alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

72xE-2000™, APC 8°, C, OS1 (9µm)

1

R302001

48xLC Duplex, APC 8°, C, OS1 (9µm)

1

R308519

010.2802



GOF 19" 2U UniRack with, splice version,

Supplied:

- 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual
- Front panel equipped with 45° adapter entry, (R308474 = left) adapters (zirconia ceramic alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

24xE-2000™, APC 8°, C, OS1 (9µm)

1

R308474

i Note: Loose tubes of a diameter above 3.5 mm can cause mounting problems. Connector pigtails 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
010.1689 Page FO 82/83	010.2201 Page FO 83/84	030.1023.1 Page FO 84/90	010.2197 Page FO 98/98	030.0094 Page FO 99/99	010.2198 Page FO 99/99	010.2791 Page FO 99	
010.2183 Page FO 82/83	030.1021.1 Page FO 83/84	030.0261 Page FO 84/90	030.0096.1 Page FO 98/98	030.0305 Page FO 99/99	030.0099 Page FO 99/99		

**GOF 19" 1U and 2U Versions
GOF 19" 1U FibereasyRack
(breakout versions)**



Features

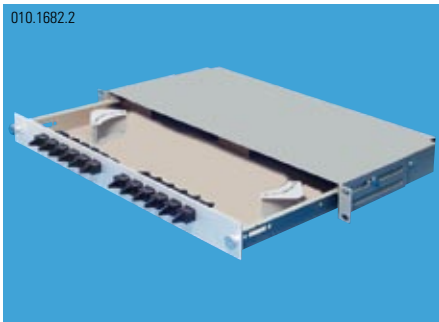
- Up to 24 adapters on one height unit (1U)
- Simple patch panel mounting and dismounting
- Little mounting depth of 230 mm
- Universally compatible (e.g. ETSI standard compliant)
- Cable entry from the rear or from the side

Ordering Information

Description

PU

Part Number

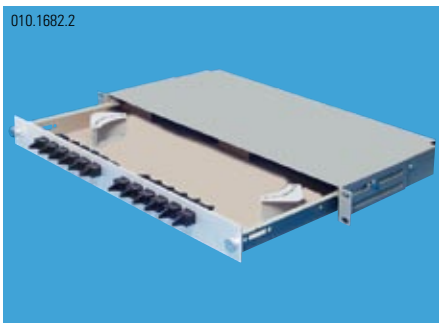


GOF 19" 1U Fibereasy Rack with, breakout version,

Supplied:

- 19" 1U slide-in unit, fastening material, labeling strips and installation manual
- Three 2 x 15 mm radius guards
- Front panel equipped with adapters (zirconia ceramic alignment sleeve):

24xE-2000™, APC 8°, C, OS1 (9µm)	1	R306199
12xE-2000™ Compact, APC 9°, C, OS1 (9µm)	1	R306195
12xSC-RJ, PC, C, OS1 (9µm)	1	R30693-12
24xSC, PC, C, OS1 (9µm)	1	R304360
12xSC Duplex, PC, C, OS1 (9µm)	1	R30692-12
24xLC Duplex, APC 8°, C, OS1 (9µm)	1	R309611
24xLC Duplex, PC, C, OS1 (9µm)	1	R309610
24xST, C, OS1 (9µm)	1	R30691-24



GOF 19" 1U Fibereasy Rack with, breakout version,



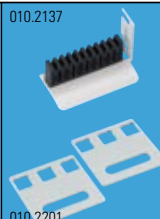

Supplied:

- 19" 1U slide-in unit, fastening material, labeling strips and installation manual
- Three 2 x 15 mm radius guards
- Front panel equipped with adapters (phosphor bronze alignment sleeve):

12xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R308498	●
12xE-2000™ Compact, PC, M, OM2 (50µm)	1	R308499	●
12xE-2000™ Compact, PC, M, OM3 (50µm)	1	R308890	●
12xSC-RJ, PC, M	1	R308500	●
12xSC Duplex, PC, M	1	R308501	●
12xLC Duplex, PC, M	1	R309619	●
24xST, PC, M	1	R308502	●

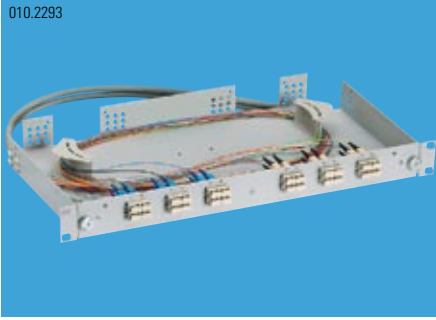


Note: Adapters 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
 <p>010.1689 010.2136</p>	 <p>010.1690 010.2183</p>	 <p>010.2137 010.2201</p>	 <p>030.1027.1</p>				
Page FO 82/82	Page FO 83/83	Page FO 83/83	Page FO 84				

**GOF 19" 1U and 2U Versions
GOF 19" 1U Breakout Box
(breakout versions)**

010.2293



Features

- Up to 24 adapters on one height unit (1U)
- Little mounting depth of 230 mm
- Cable entry from the rear or from the side
- Fastening options for cabling systems
- No front-side drawer (fixed rack)

Ordering Information

Description

PU

Part Number

010.2294.1



GOF 19" 1U Breakout Box with, breakout version,

Supplied:

- 19" 1U breakout box, fastening material, labeling strips and installation manual (without FO cover for 19" 1U splice box and breakout box, R306775)
- Front panel equipped with adapters (phosphor bronze alignment sleeve):

12xE-2000™ Compact, PC, M, OM1 (62.5µm)

1

R306873



12xE-2000™ Compact, PC, M, OM2 (50µm)

1

R306872



12xE-2000™ Compact, PC, M, OM3 (50µm)

1

R308886



12xSC-RJ, PC, M

1

R308508



12xSC Duplex, PC, M

1

R306876



24xST, PC, M

1

R306874



24xSC, M

1

R306875



Note: Adapters 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories

<p>010.1689</p> <p>010.2136</p> <p>Page FO 82/82</p>	<p>010.1690</p> <p>010.2183</p> <p>Page FO 83/83</p>	<p>010.2137</p> <p>010.2201</p> <p>Page FO 83/83</p>	<p>030.1027.1</p> <p>010.2291</p> <p>Page FO 84/84</p>				
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Features

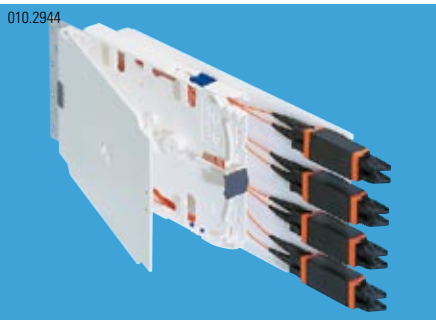
- Up to 4 E-2000™ Compact/SC-RJ connectors per module
- Up to 32 fibers per 19" 1U 16-port copper patch panel
- Compatible with the 1U 16-port patch panel
- Customized solutions on request

Ordering Information

Description

PU

Part Number



GOF 1U Four-Channel module with, splice version,

Supplied:

- 1U four-channel module, with 1 splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

4xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R309130	●
4xE-2000™ Compact, PC, M, OM2 (50µm)	1	R309141	●
4xE-2000™ Compact, PC, M, OM3 (50µm)	1	R309140	●
4xSC-RJ, PC, M, OM1 (62.5µm)	1	R309132	●
4xSC-RJ, PC, M, OM2 (50µm)	1	R309133	●
4xSC-RJ, PC, M, OM3 (50µm)	1	R309134	●



GOF 1U Four-Channel module with, breakout version,

Supplied:

- 19" 1U four-channel module, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve):

4xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R309135	●
4xE-2000™ Compact, PC, M, OM2 (50µm)	1	R309136	●
4xE-2000™ Compact, PC, M, OM3 (50µm)	1	R309137	●
4xSC-RJ, PC, M	1	R309138	●

i Note: Adapter and connector pigtails 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories

 010.2180 Page CU 71/FO 94	 010.2983 Page FO 94/94	 010.2982 Page FO 94/98	 030.0096 Page FO 98/99	 030.0305 Page FO 99/99	 030.0099 Page FO 99		
 090.2289 Page CU 71/FO 94	 010.3088 Page FO 94/94	 010.2197 Page FO 94/98	 030.0094 Page FO 98/99	 010.2146 Page FO 99/99			



Application

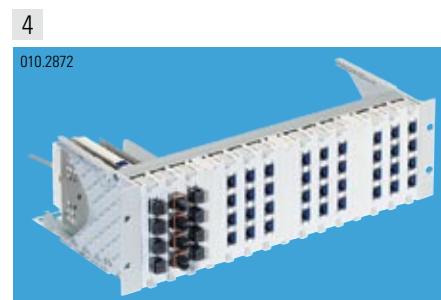
In public as well as private fiber-optic networks, R&M's 3U versions are ideally suited for applications in PON network structures (Passive Optical Networks).

Splice Versions

On R&M's 3U patch panels, up to 120 fibers (10 x 8 HP Fiberliner) or 144 fibers (12 x 7HP Connector Modules) can be terminated to all types of singlemode and multimode fiber-optic cables.

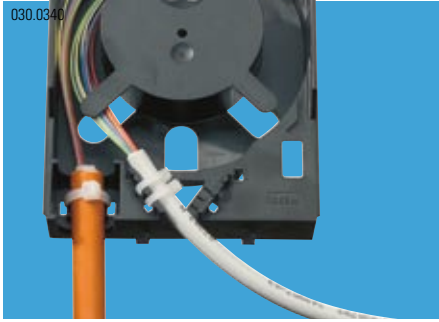
Breakout Versions

On R&M's 3U patch panels (8HP Fiberliner) up to 120 fibers can be terminated to all types of adapters.



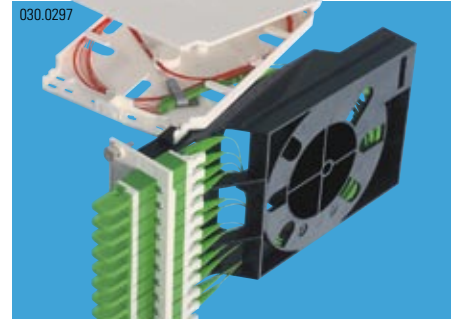
Products	Page
1 Customer Benefits	FO 22
2 GOF 3U 8HP Fiberliner	FO 23
3 GOF 3U 7HP Connector Module	FO 26
4 GOF 19" 3U Four-Channel Module	FO 27

Customer Benefits



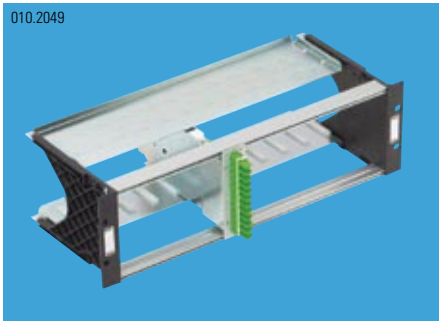
Free choice of cable entry, 45° or 90°

Optimum cable entry, even with distribution racks of smaller depths (3U 8HP Fiberliner).



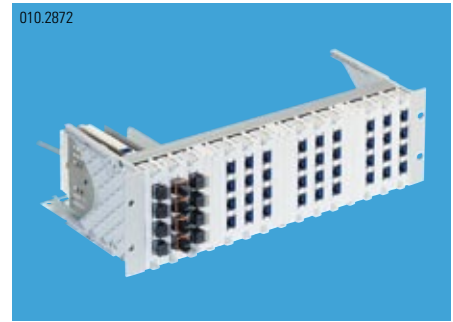
Integrated splice tray holder

Fixates the splice tray, greatly simplifying the replacing of pigtails (3U 8HP Fiberliner).

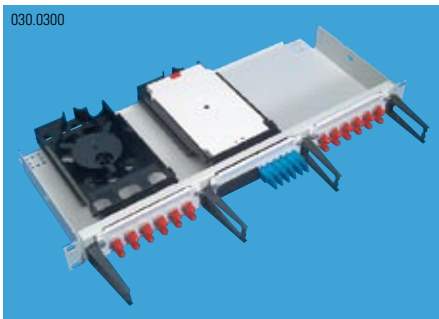


Up to 144 ports

Up to 144 SC or E-2000™ can be connected on one 3U sub-rack (3U 7HP Connector Module).

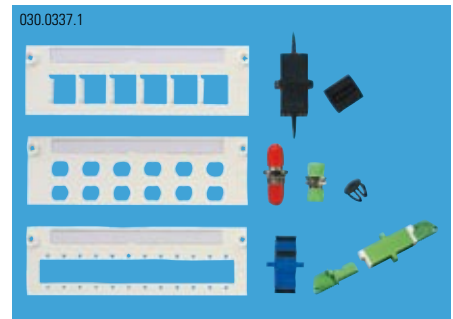


Mounts directly in all R&M 3U standard RJ45 patch panels (3U 8HP Fiberliner).



LAN-WAN applications

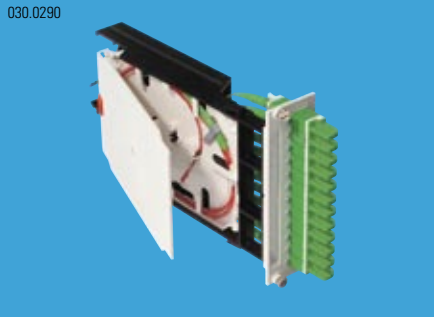
For use with LAN and WAN applications as splice or breakout versions in the R&M 19" 1U/3U patch panels (3U 8HP Fiberliner).



Flexible use of the 19" slide-in unit (snap-in front panel)

For a fast and simple fitting of E-2000™, E-2000™ Compact, SC-RJ, SC, ST and FC adapters.

030.0290



Features

- Up to 12 connectors per 8HP splice version
- Up to 120 fibers per 19" 3U Global patch panel
- Free choice of cable entry, 45° or 90°
- Direct mounting into R&M's 1U and 3U fiber-optic patch panels
- Convenient tightening and replacing of individual pigtailed

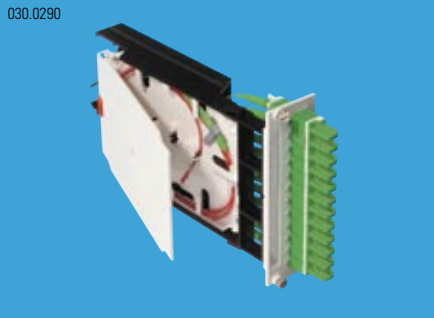
Ordering Information

Description

PU

Part Number

030.0290



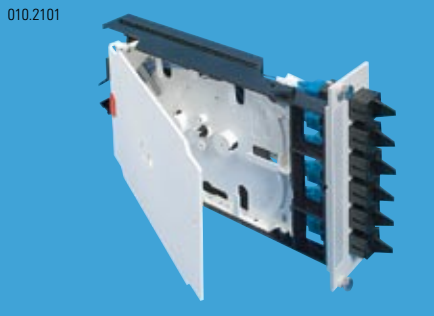
GOF 3U 8HP Fiberliner with, splice version,

Supplied:

- Slide-in unit, splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (zirconia ceramic alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

12xE-2000™, APC 8°, C, OS1 (9µm)	1	R30869
12xE-2000™, PC, C, OS1 (9µm)	1	R30861
6xE-2000™ Compact, APC 8°, C, OS1 (9µm)	1	R306211
6xE-2000™ Compact, PC, C, OS1 (9µm)	1	R306209
12xSC, APC 8°, C, OS1 (9µm)	1	R30889
12xSC, PC, C, OS1 (9µm)	1	R30859
12xFC, PC, C, OS1 (9µm)	1	R30857
12xST, PC, D, OS1 (9µm)	1	R304987

010.2101



GOF 3U 8HP Fiberliner with, splice version,





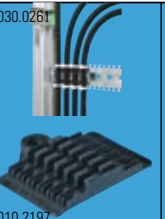



Supplied:

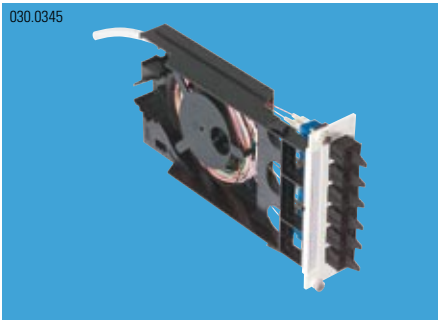
- Slide-in unit, splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

6xE-2000™ Compact, PC, M, OM1 (62.5µm)	1	R306954	●
12xE-2000™ Compact, PC, M, OM2 (50µm)	1	R306953	●
6xE-2000™ Compact, PC, M, OM3 (50µm)	1	R308072	●
6xSC-RJ, PC, M, OM1 (62.5µm)	1	R306956	●
6xSC-RJ, PC, M, OM2 (50µm)	1	R306955	●
6xSC-RJ, PC, M, OM3 (50µm)	1	R308071	●
6xSC Duplex, PC, M, OM1 (62.5µm)	1	R306950	●
6xSC Duplex, PC, M, OM2 (50µm)	1	R306949	●
6xSC Duplex, PC, M, OM3 (50µm)	1	R308070	●
12xST, PC, M, OM1 (62.5µm)	1	R306952	●
12xST, PC, M, OM2 (50µm)	1	R306951	●
12xST, PC, M, OM3 (50µm)	1	R308073	●

i Connector pigtailed 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

GOF 3U Versions
GOF 3U 8HP Fiberliner
(splice versions)

Matching Accessories							
 <p>010.2096 010.1252</p>	 <p>010.1267 030.0298</p>	 <p>030.0011 020.0045</p>	 <p>010.1964 010.2311</p>	 <p>030.0261 010.2197</p>	 <p>030.0096 030.0094</p>	 <p>030.0305 010.2106</p>	 <p>030.0099</p>
Page FO 85/85	Page FO 86/86	Page FO 86/86	Page FO 87/87	Page FO 90/98	Page FO 98/99	Page FO 99/99	Page FO 99



Features

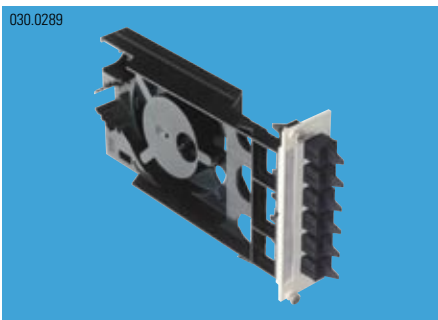
- Up to 12 connectors per 8HP splice version
- Up to 120 fibers per 19" 3U Global patch panel
- Free choice of cable entry, 45° or 90°
- Tension relief for different breakout cables provided
- Direct mounting into R&M's 1U and 2U patch panels

Ordering Information

Description

PU

Part Number



GOF 3U 8HP Fiberliner with, breakout version,

Supplied:

- Slide-in unit, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve):

6xE-2000™ Compact, PC, M, OM1 (62.5µm)

1

R306960



6xE-2000™ Compact, PC, M, OM2 (50µm)

1

R306959



6xE-2000™ Compact, PC, M, OM3 (50µm)

1

R308885



6xSC-RJ, PC, M

1

R308507



6xSC Duplex, PC, M

1

R306957



12xST, PC, M

1

R306961

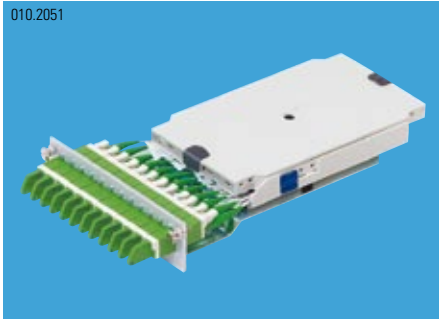


Fiber count	Diameter in mm	Cable length in mm	In coils	Breaking out hold-down plate
12	Below 1	420 to 1500	1 to 4	No
12	1 to 2	420 to 750	1 to 2	Yes
12	2 to 3	420 to 450	1	Yes

i **Note:** Adapter 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
010.2096 	010.1267 	030.0011 	030.0082 				
010.1252 Page FO 85/85	030.0298 Page FO 86/86	020.0045 Page FO 86/86	Page FO 76				

**GOF 3U Versions
GOF 3U 7HP Connector Module
(splice versions)**



Features

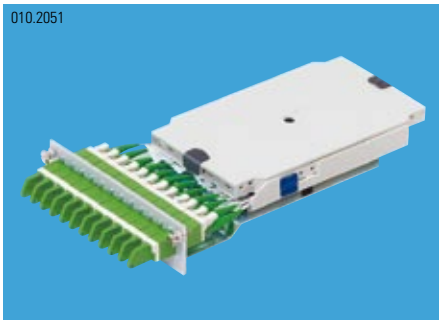
- Up to 12 connectors per 7HP splice version
- Up to 144 fibers per 19" 3U Global patch panel
- Tension relief for different installation cables provided
- Direct mounting into R&M's 3U fiber-optic patch panels
- Convenient tightening and replacing of individual pigtailed

Ordering Information

Description

PU

Part Number



GOF 3U 7HP Connector Module with, splice version,

Supplied:

- Slide-in unit, splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (zirconia ceramic alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

12xE-2000™, APC 8°, C, OS1 (9µm)

1

R304570

12xE-2000™, PC, C, OS1 (9µm)

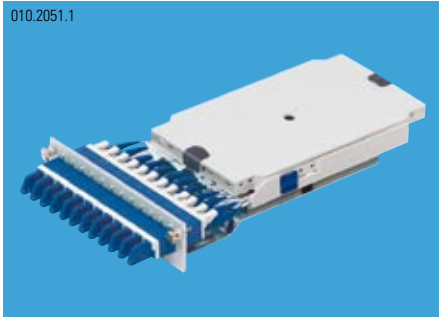
1

R306917

6xE-2000™ Compact, APC 8°, C, OS1 (9µm)

1

R306870



GOF 3U 7HP Connector Module with, splice version,

Supplied:

- Slide-in unit, splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtailed (color coding standard code DIN VDE 0888):

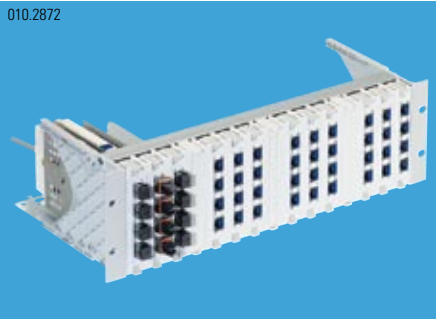
6xSC Duplex, PC, M, OM2 (50µm)

1

R306515

i Connector pigtailed 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories							
010.2096	010.1964	030.0261	030.0096	030.0305	030.0099		
030.0011	010.2311	010.2197	030.0094	010.2106			
Page FO 85/86	Page FO 87/87	Page FO 90/98	Page FO 98/99	Page FO 99/99	Page FO 99		



Features

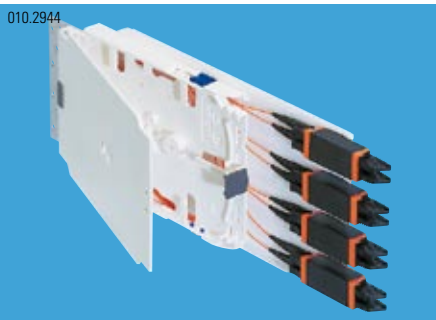
- Up to 4 E-2000™ Compact/SC-RJ connectors per module
- Up to 120 fibers per 19" 3U Global copper patch panel
- Compatible with 3U Global connection module holder
- Customized solutions on request

Ordering Information

Description

PU

Part Number



GOF 3U Four-Channel module with, splice version,

Supplied:

- 3U four-channel module, with 1 splice tray radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve) and connector pigtails (color coding standard code DIN VDE 0888):

4xE-2000™ Compact, PC, M, OM1 (62.5µm)

1

R309148



4xE-2000™ Compact, PC, M, OM2 (50µm)

1

R309146



4xE-2000™ Compact, PC, M, OM3 (50µm)

1

R309144



4xSC-RJ, PC, M, OM1 (62.5µm)

1

R309142



4xSC-RJ, PC, M, OM2 (50µm)

1

R309155



4xSC-RJ, PC, M, OM3 (50µm)

1

R309129



GOF 3U Four-Channel module with, breakout version,

Supplied:

- 3U four-channel module, fastening material, labeling strips and installation manual
- Front panel equipped with adapters (phosphor bronze alignment sleeve):

4xE-2000™ Compact, PC, M, OM1 (62.5µm)

1

R309153



4xE-2000™ Compact, PC, M, OM2 (50µm)

1

R309157



4xE-2000™ Compact, PC, M, OM3 (50µm)

1

R309147



4xSC-RJ, PC, M

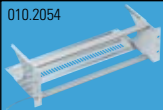




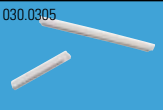




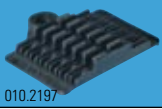


1

R309145



i Note: Adapter and connector pigtails 100 % tested and supplied with test report. E-2000™ = LSH, E-2000™ Compact = LSH-RJ (snap-in)

Matching Accessories

010.2054 	010.1181 	010.2983 	010.2982 	030.0096 	030.0305 	030.0099 	
010.2055 	090.2289 	010.3083 	010.2197 	030.0094 	010.2198 		
Page CU 72/72	Page CU 73/FO 94	Page FO 94/94	Page FO 94/98	Page FO 98/99	Page FO 99/99	Page FO 99	

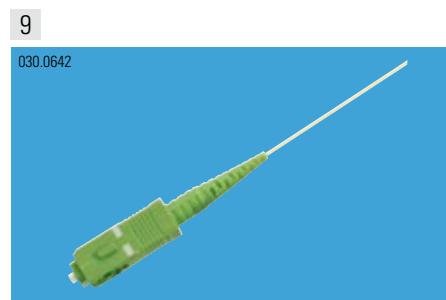
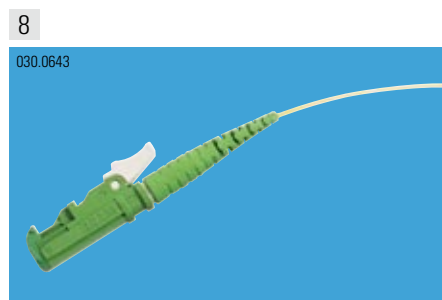
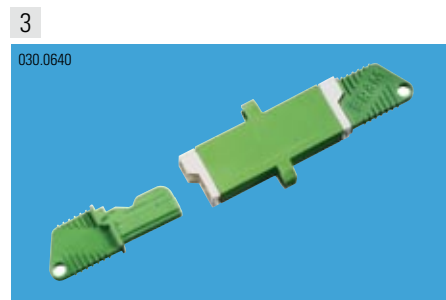
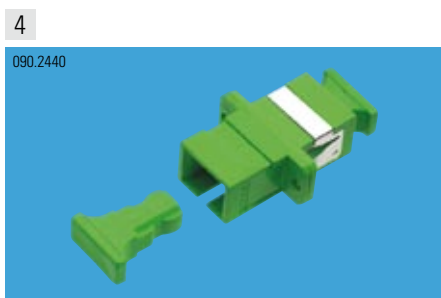


Application

R&M's fiber-optic connectors are the key components for a low loss, broadband data transmission in fiber-optic networks.

E-2000™ connector

One of them is the E-2000™ Compact connector for high packing density. It is the smallest E-2000™ design worldwide (international standard IEC 61754-15 compliant). The E-2000™ is the connector system of the future; easy handling and unequalled reliability make it the best investment protection there is on the market.



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1 Customer Benefits	FO 31
2 Overview	FO 32
3 GOF Adapters E-2000™	FO 34
4 GOF Adapters SC	FO 36
5 GOF Adapters LC Duplex	FO 38

Products	Page
6 GOF Adapters FC	FO 39
7 GOF Adapters ST	FO 40
8 GOF Pigtails, Patch Cords E-2000™	FO 41
9 GOF Pigtails, Patch Cords SC	FO 44

GOF Connectors



Application

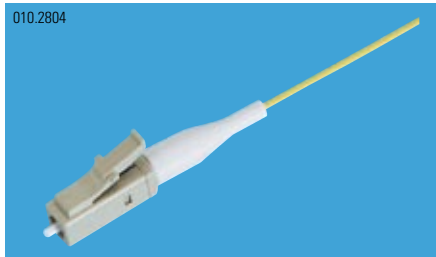
R&M's fiber-optic connectors are the key components for a low loss, broadband data transmission in fiber-optic networks.

E-2000™ connector

One of them is the E-2000™ Compact connector for high packing density. It is the smallest E-2000™ design worldwide (international standard IEC 61754-15 compliant). The E-2000™ is the connector system of the future; easy handling and unequalled reliability make it the best investment protection there is on the market.

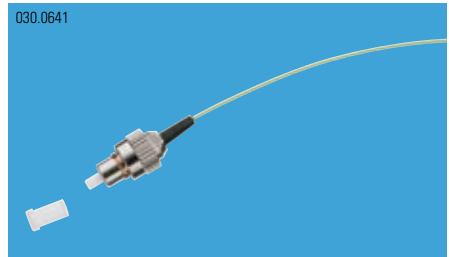
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010.2804



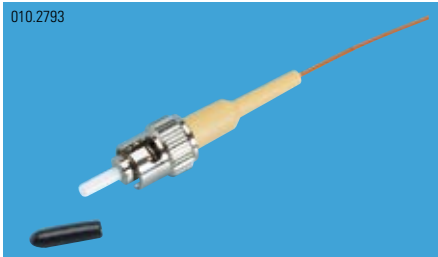
2

030.0641



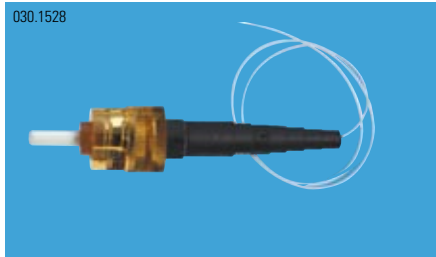
3

010.2793



4

030.1528



5

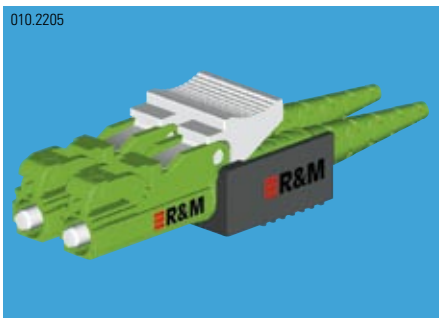
010.1968



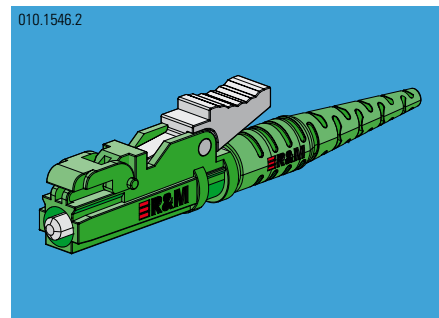
Products

Page

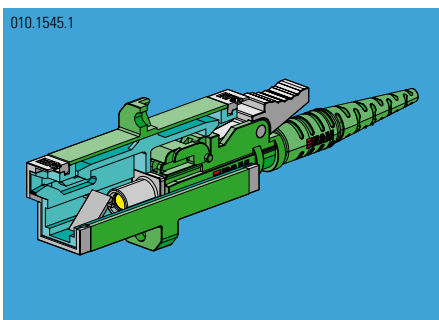
1 GOF Pigtails, Patch Cords LC	FO 47
2 GOF Pigtails, Patch Cords FC	FO 49
3 GOF Pigtails, Patch Cords ST	FO 50
4 Mechanical Crimp Connectors	FO 51
5 Tool Kit for Field Termination	FO 52



010.2205
 Unique latched push-pull system for a safe mechanical interlock.



010.1546.2
 The integrated self-closing dust cover protects the ferrule against dust and scratching.

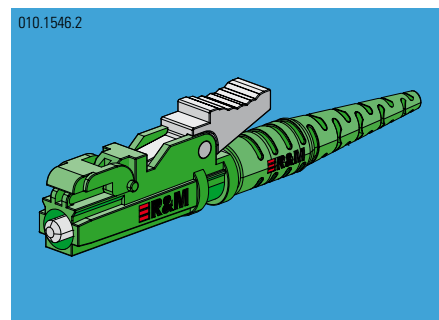


010.1545.1
 The long connector guide in the adapter prevents accidental damaging of the ferrule and ceramic sleeve during the mating cycles.

get more

- More modularity
- More packing density
- More compactness
- More performance

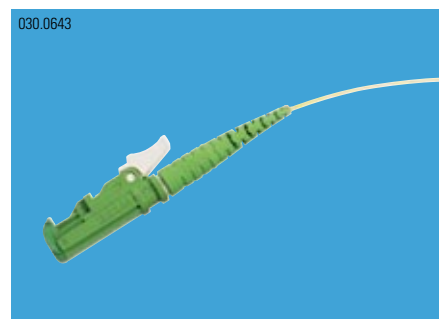
@ **R&M**



010.1546.2
 The mono-bloc ceramic ferrule is fully protected by the housing.



010.2803
 High packing density with the E-2000™ connector.



030.0643
 Low-smoke, zero-halogen (LSZH) cable sheath for highest safety and person protection.

**GOF Connectors
Overview**



Fiber optic assemblies by R&M – a class of their own!

«It is unwise to pay too much, but it is unwise to pay too little. When you pay too much, you loose a little money; that is all. When you pay too little you sometimes lose everything. Because the thing you bought was incapable of doing the thing you bought it to do.»

John Ruskin, English writer and social critic, formulated this principle as early as in the 19th century. To make sure that our customers neither pay too much nor get too little in return, R&M has modeled its fiber optics portfolio into four application-specific classes to offer maximum value and performance for all requirements. This grading also makes it easier for planners and network managers to do their jobs and take the right decisions.

Class system by R&M

Multimode – Grade M

OM1/OM2/OM3

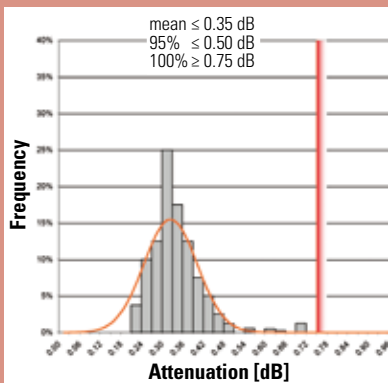
Singlemode – Grade D

PC – polish

Multimode assemblies are still a good basic solution for many applications in enterprise networks – in particular for short links.

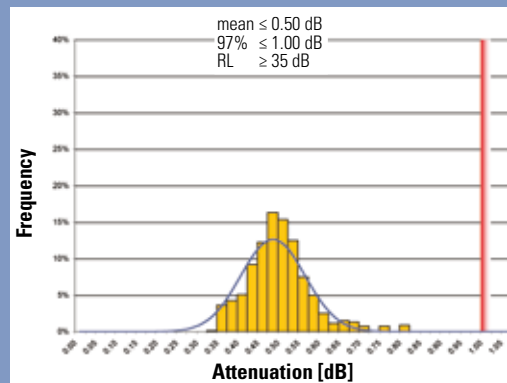
The ideal solution for enterprise applications in campus cabling, backbone cabling or storage area networking. This means relatively short links too and not too high demands on optical performance, for the power budget is not considered critical. This class thus only holds connectors with PC polish. Adapters with phosphor-bronze alignment sleeves as a rule meet the given requirements.

010.3415












Frequency chart of insertion losses of multimode fibers with a guaranteed value of ≥ 0.75 dB.

010.3416



Frequency chart of insert losses of singlemode fibers. In red the percentile value of 1 dB.

- 090.2371  SC-RJ
- 010.2310  SC Duplex
- 010.1254.2  2 x ST
- 090.2108.1  LC Duplex
- 010.2143  E-2000™ Compact

- 090.2354  E-2000™ Compact
- 090.2357  SC Duplex
- 090.2355  LC Duplex
- 010.1254.2  2 x ST

The selecting of patch cords and pigtails by their quality class has not always yielded the best results for the specific applications. It happened that a customer would pay „too much“ for a good product and used it where it wasn't really required. Or the reverse happened and the acquired and implemented components did not meet the requirements and did not support the system's power potential.

Fiber-optic grading IEC draft 61755 oriented

To avoid even the slightest mismatch R&M has split up its fiber optics portfolio into application-specific classes. Their definition is consistent with the IEC drafts 61755-2-1 and 61755-2-2, which were developed with substantial contribution from R&M. A deciding criterion is insertion loss (IL).

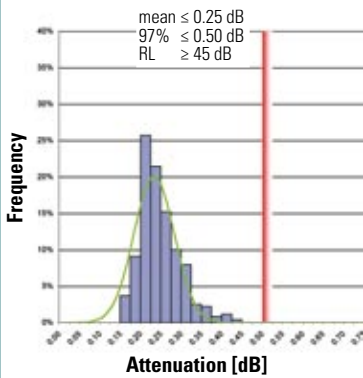
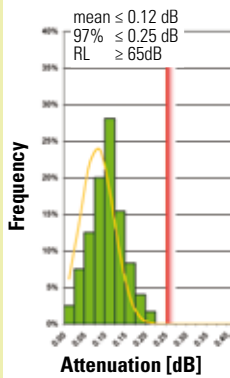










The actual novelty in these drafts is that optical power is defined by so-called random mate measuring. Random mate measuring means a connector's loss is not measured when connected to a reference connector but every connector is mated against all other connectors once and what is measured is the attenuation of the combination connector-adapter-connector. This corresponds to real-life conditions too where connector pairs are also mated at random. It is thus not only the individual connector that counts but the actual mated connection.

Singlemode – Grade C

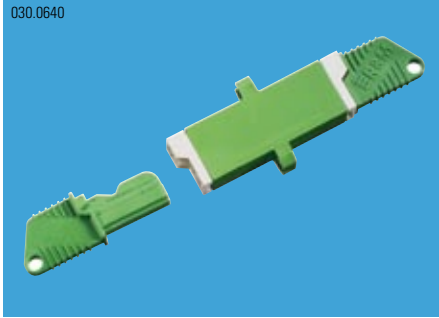
PC and APC polish

Singlemode – Grade B

APC – polish

<p>The next higher class C basically equals today's telecom standard and is therefore the most commonly used. The assembled connectors of this class come with PC and APC polish and are ideal for metro and access applications. When nothing else is mentioned on an order, this is the automatically delivered class.</p>	<p>The ideal solution for enterprise applications in campus cabling, backbone cabling or storage area networking. This means relatively short links too and not too high demands on optical performance, for the power budget is not considered critical. This class thus only holds connectors with PC polish. Adapters with phosphor-bronze alignment sleeves as a rule meet the given requirements.</p>
<p>010.3417</p>  <p>Singlemode fibers with PC or APC polish and a 97% percentile value of 0.5 dB.</p>	<p>010.3418</p>  <p>Singlemode fibers with APC polish and a 97% percentile value of 0.25 dB.</p>
<p>090.2356  E-2000™ PC</p> <p>030.0633  SC PC</p> <p>090.2355  LC Duplex PC</p> <p>030.0632  FC PC</p> <p>030.0634  E-2000™ APC</p> <p>090.2360  SC APC</p> <p>090.2427  LC Duplex APC</p> <p>030.0632  FC APC</p>	<p>030.0634  E-2000™ APC</p> <p>090.2360  SC APC</p>

GOF Connectors
GOF Adapters E-2000™
(E-2000™, E-2000™ Compact)



Features

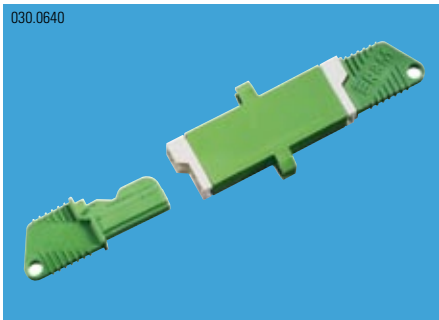
- Injection-molded PBT housing, UL94 VO (flammability index)
- Integrated, spring-loaded shutters for dust and scratching protection
- Long guiding section of connector body
- Split ceramic sleeve/phosphor bronze sleeve
- 1000 mating cycles (zirconia ceramic alignment sleeve)
- 500 mating cycles (phosphor bronze alignment sleeve)

Ordering Information

Description

PU

Part Number



GOF Adapter E-2000™

Supplied:

- E-2000™ adapter (zirconia ceramic alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

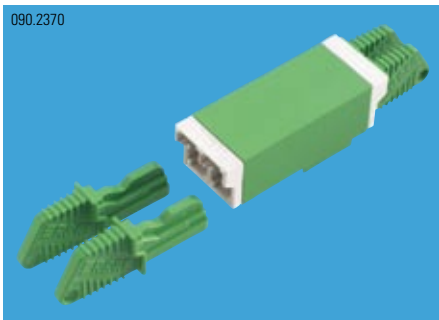
green, white, color, ceramic SM, C
blue, blue, color, ceramic SM, C

12

R30963

12

R30960



GOF Adapter E-2000™ Compact

Supplied:

- E-2000™ Compact adapter (zirconia ceramic alignment sleeve)
- Support plate: R305548, R305546
- Snap-In: R313009, R313011

green, white, color, ceramic SM, C
blue, blue, color, ceramic SM, C
green, white, color, ceramic SM, C
blue, blue, color, ceramic SM, C

12

R305548

12

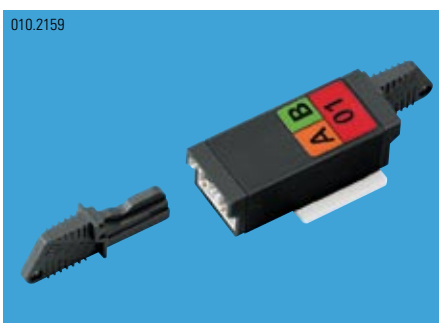
R305546

12

R313009

12

R313011



GOF Adapter E-2000™ Compact

Supplied:

- E-2000™ Compact adapter (phosphor bronze alignment sleeve)
- Support plate: R306882, R306878, R308889
- Snap-In: R313001, R313002, R313010

black, black, color, PhBr MM, M
black, orange, color, PhBr MM, M
black, turquoise, color, PhBr MM, M
black, black, color, PhBr MM, M
black, orange, color, PhBr MM, M
black, turquoise, color, PhBr MM, M

12

R306882

12

R306878

12

R308889

12

R313001

12






R313002

12

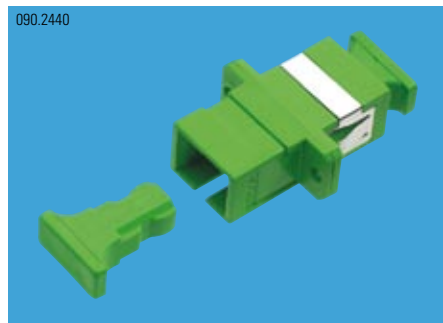
R313010



VO = Vertical test sample stops burning within 10 seconds, draining is not permissible. E-2000™ = LSH, E-2000™ Compact = LSH-RJ, OS1 PC = blue, blue, OS1 APC = green, white, OM1 = black, black, OM2 = black, orange, OM3 = black, turquoise

Matching Accessories							
090.2388  010.2077 	010.2314  090.2389 	010.2195 					
Page FO 93/91	Page FO 91/94	Page FO 91					

GOF Connectors
GOF Adapters SC
(SC, SC Duplex, SC-RJ)



Features

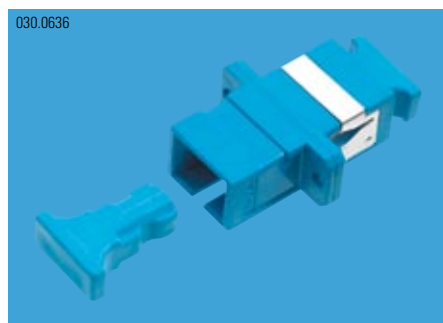
- Injection-molded PBT housing, UL94 V0 (flammability index)
- Split ceramic sleeve/phosphor bronze sleeve
- 500 mating cycles

Ordering Information

Description

PU

Part Number



GOF Adapter SC

Supplied:

- SC adapter (zirconia ceramic alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

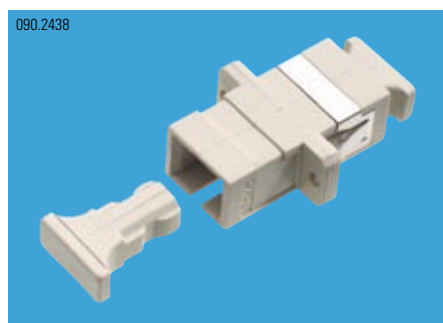
green, ceramic SM, C
blue, ceramic SM, C

12

R301393

12

R30803



GOF Adapter SC

Supplied:

- SC adapter (phosphor bronze alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

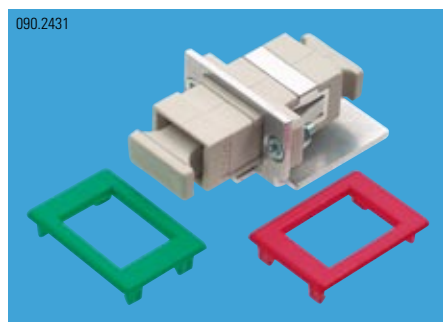
blue, PhBr SM, D
beige, PhBr MM, M

12

R306880

12

R306877



GOF Insertion with

Supplied:

- Insertion with adapter SC (R313996 = phosphor bronze alignment sleeve, R313999 = zirconia ceramic alignment sleeve)

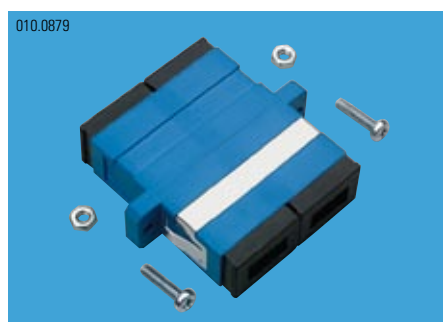
Adapter SC, blue, ceramic, SM, C
Adapter SC, beige, PhBr MM, M

1

R313999

1

R313996



GOF Adapter SC Duplex

Supplied:

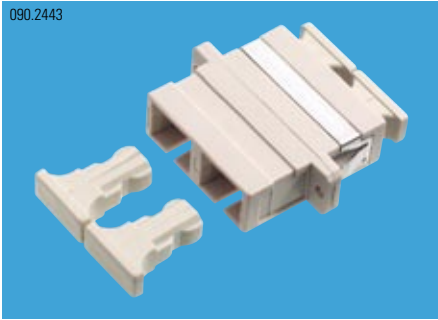
- SC Duplex adapter (zirconia ceramic alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

blue, ceramic SM, C

12

R30805

090.2443



GOF Adapter SC Duplex

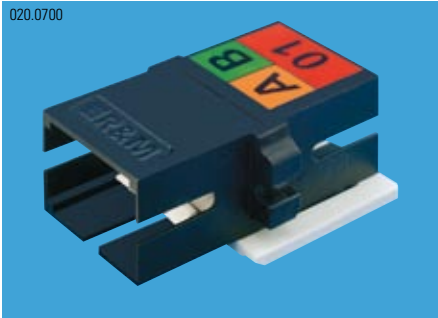
- Supplied:
- SC Duplex adapter (phosphor bronze alignment sleeve)
 - 2 Philips head screws M2 x 8, blue galvanized
 - 2 mounted hexagonal nuts M2, blue galvanized

blue, PhBr SM, D
beige, PhBr MM, M

12 R306879
 12 R303561



020.0700



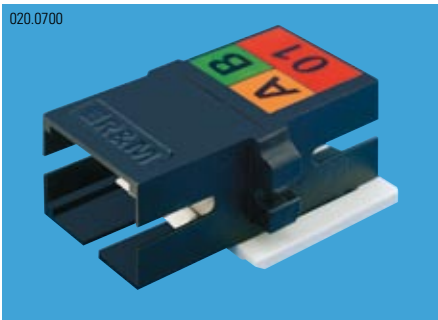
GOF Adapter SC-RJ

- Supplied:
- Adapter SC-RJ (zirconia ceramic alignment sleeve)
 - Support plate: R308461
 - Snap-In: R312695

black, ceramic SM, C
black, ceramic SM, C

12 R308461
 12 R312695

020.0700



GOF Adapter SC-RJ

- Supplied:
- Adapter SC-RJ (phosphor bronze alignment sleeve)
 - Support plate: R308459
 - Snap-In: R312775

black, PhBr MM, M
black, PhBr SM, M

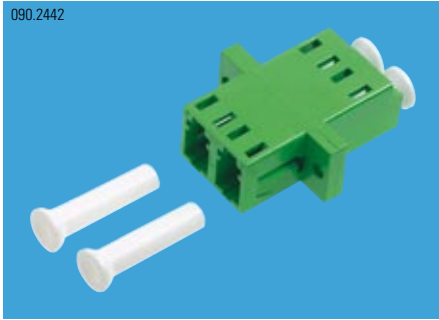
12 R308459
 12 R312775



i VO = Vertical test sample stops burning within 10 seconds, draining is not permissible.

Matching Accessories							
090.2389							
Page FO 94							

GOF Connectors
GOF Adapters LC Duplex
(SC footprint)



Features

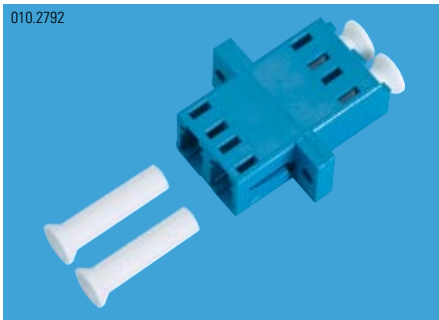
- Compact design (SFF)
- Outstanding optical performance
- Twice as many terminations as regular connector types
- Duplex adapter fits in SC Simplex cutout

Ordering Information

Description

PU

Part Number



GOF Adapter LC Duplex

Supplied:

- LC Duplex adapter (zirconia ceramic alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

green, ceramic SM, C
blue, ceramic SM, C

12

R309003

12

R308894



GOF Adapter LC Duplex

Supplied:

- LC Duplex adapter (phosphor bronze alignment sleeve)
- 2 Philips head screws M2 x 8, blue galvanized
- 2 mounted hexagonal nuts M2, blue galvanized

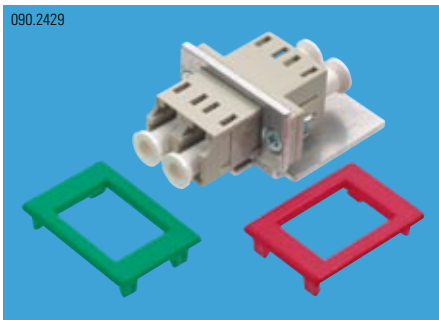
blue, PhBr SM, D
beige, PhBr MM, M

12

R308895

12

R308896



GOF Insertion with

Supplied:

- Insertion with LC adapter (R310134 = phosphor bronze alignment sleeve)

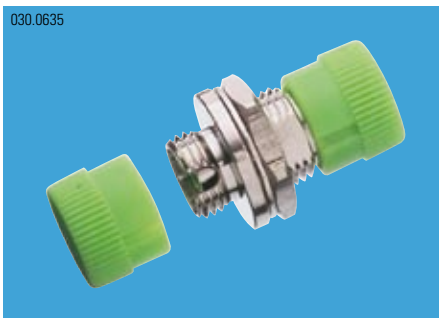
Adapter LC Duplex, blue, ceramic, SM, C
Adapter LC Duplex, beige, PhBr MM, M

1

R314581

1

R310134



Features

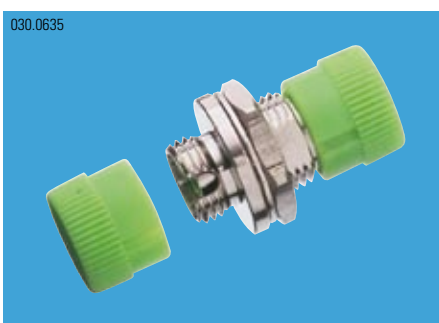
- Brass adapter housing
- Screw-type locking
- Split zirconia ceramic sleeve
- 500 mating cycles
- Coupling for D-hole mounting

Ordering Information

Description

PU

Part Number



GOF Adapter FC

Supplied:

- FC adapter (zirconia ceramic alignment sleeve)
- Hexagonal nut
- R30911 = d-type, R311304 = square

ceramic SM, C
ceramic SM, C

12
1

R30911
R311304

GOF Connectors
GOF Adapters ST

010.0800



Features

- Brass adapter housing
- Bayonet-type locking
- Split zirconia ceramic sleeve/phosphor bronze sleeve
- 500 mating cycles
- Coupling for D-hole mounting

Ordering Information

Description

PU

Part Number

010.0800



GOF Adapter ST

- Supplied:
- ST adapter (zirconia ceramic alignment sleeve)
 - Hexagonal nut

ceramic SM, C

12

R30802

010.0800



GOF Adapter ST

- Supplied:
- ST adapter (phosphor bronze alignment sleeve)
 - Hexagonal nut

PhBr SM, D

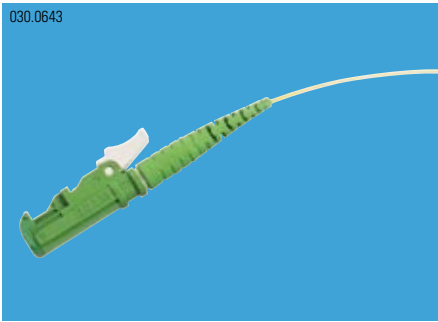
12

R306881

PhBr MM, M

12

R303562



Features

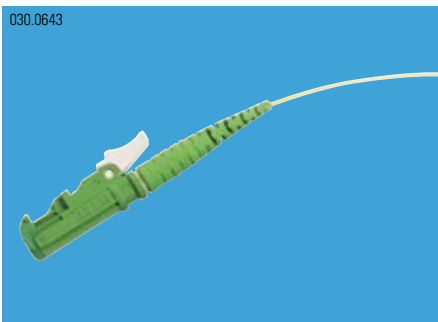
- The connector housing fully protects the ferrule against dust, dirt and scratching
- Integrated spring-loaded shutters for dust and scratching protection
- LSZH cable sheath
- Locking type latched push-pull
- Injection-molded PBT housing UL94 V0 (flammability index)

Ordering Information

Description

PU

Part Number



GOF Pigtail, E-2000™

Supplied:

- One side fitted with E-2000™ plug
- Pigtail sheath color, SM = yellow, MM OM1 = blue, MM OM2 = orange, MM OM3 = turquoise (semi-buffer)
- Plug color: SM PC = blue, SM APC 8° = green, MM OM1 = black, MM OM2 = black, MM OM3 = black
- Lever color: SM PC = blue, SM APC 8° = white, MM OM1 = black, MM OM2 = orange, MM OM3 = turquoise

APC 8°, green, OS1 (9µm), C, 2.5 m

12

R30967

PC, blue, OS1 (9µm), C, 2.5 m

12

R30964

PC, black, OM1 (62.5µm), M, 2.5 m

12

R301460

PC, black, OM2 (50µm), M, 2.5 m

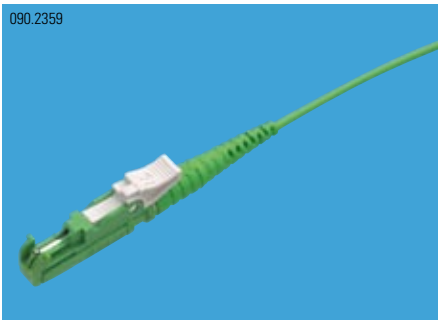
12

R301459

PC, black, OM3 (50µm), M, 2.5 m

12

R307389



GOF Patch Cord 2.1 mm, E-2000™ APC 8°, green/white - E-2000™ APC 8°, green/white, OS1 (9µm), C

Supplied:

- Both sides fitted with E-2000™ APC 8° plug
- SM G 652.D (OS1), green
- Plug color: green
- Lever color: white

2 m

1

R30989

3 m

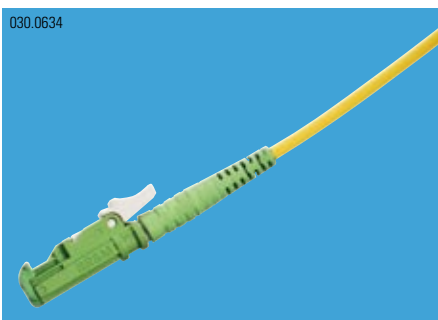
1

R30990

5 m

1

R30992



GOF Patch Cord 3 mm, E-2000™ APC 8°, green/white - E-2000™ APC 8°, green/white, OS1 (9µm), C

Supplied:

- Both sides fitted with E-2000™ APC 8° plug
- SM G 652.D (OS1), yellow
- Plug color: green
- Lever color: white

2 m

1

R30984

3 m

1

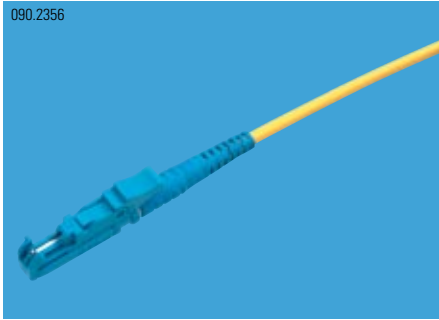
R30985

5 m

1

R30987

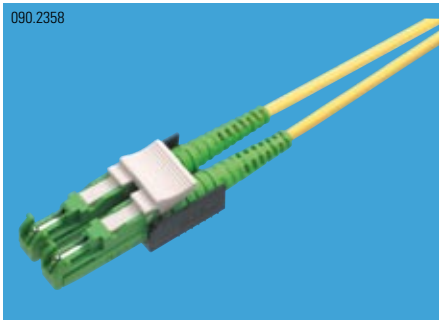
GOF Connectors
GOF Pigtails, Patch Cords E-2000™
(E-2000™ Simplex, E-2000™ Compact)



GOF Patch Cord 3 mm, E-2000™ PC, blue/blue
- E-2000™ PC, blue/blue, OS1 (9µm), C

- Supplied:
- Both sides fitted with E-2000™ PC plug
 - SM G 652.D (OS1), yellow
 - Plug color: blue
 - Lever color: blue

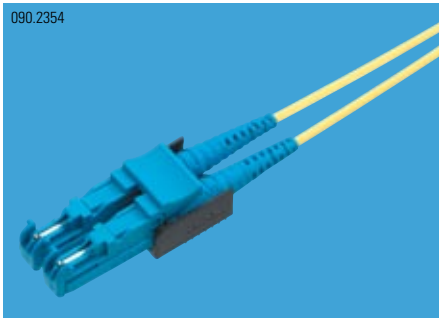
2 m	1	R30969
3 m	1	R30970
5 m	1	R30972



GOF Patch Cord 2.7x5.4 mm, E-2000™ Compact
APC 8°, green/white - E-2000™ Compact APC 8°,
green/white, OS1 (9µm), C

- Supplied:
- Both sides fitted with E-2000™ Compact APC 8° plug
 - SM G 652.D (OS1), yellow
 - Plug color: green
 - Lever color: white

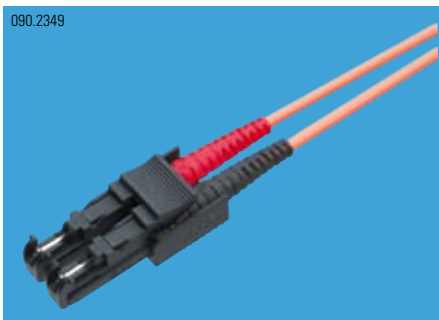
2 m	1	R303363
3 m	1	R303364
5 m	1	R303366



GOF Patch Cord 2.7x5.4 mm, E-2000™ Compact
PC, blue/blue - E-2000™ Compact PC, blue/blue,
OS1 (9µm), C

- Supplied:
- Both sides fitted with E-2000™ Compact PC plug
 - SM G 652.D (OS1), yellow
 - Plug color: blue
 - Lever color: blue

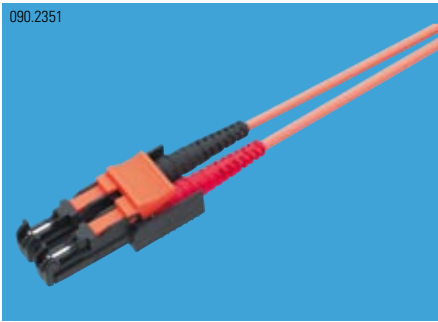
2 m	1	R303348
3 m	1	R303349
5 m	1	R303351



GOF Patch Cord 2.7x5.4 mm, E-2000™ Compact
PC, black/black - E-2000™ Compact PC, black/
black, OM1 (62.5µm), M

- Supplied:
- Both sides fitted with E-2000™ Compact PC plug
 - MM (OM1), orange
 - Plug color: black
 - Lever color: black

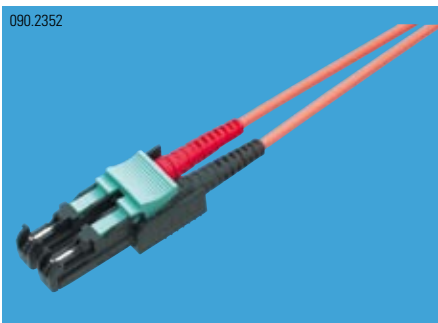
1 m	1	R304061	●
2 m	1	R304062	●
3 m	1	R304063	●
5 m	1	R304065	●



GOF Patch Cord 2.7x5.4 mm, E-2000™ Compact PC, black/orange - E-2000™ Compact PC, black/orange, OM2 (50µm), M

- Supplied:
- Both sides fitted with E-2000™ Compact PC plug
 - MM (OM2), orange
 - Plug color: black
 - Lever color: orange

1 m	1	R304056	●
2 m	1	R304057	●
3 m	1	R304058	●
5 m	1	R304060	●




GOF Patch Cord 2.7x5.4 mm, E-2000™ Compact PC, black/turquoise - E-2000™ Compact PC, black/turquoise, OM3 (50µm), M

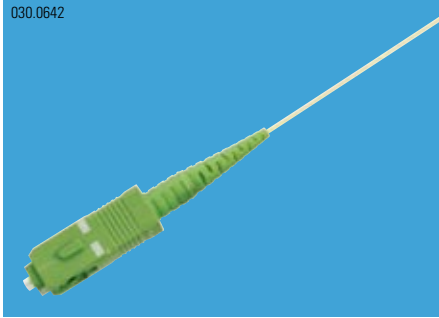
- Supplied:
- Both sides fitted with E-2000™ Compact PC plug
 - MM (OM3), orange
 - Plug color: black
 - Lever color: turquoise

1 m	1	R307531	●
2 m	1	R307532	●
3 m	1	R307533	●
5 m	1	R307534	●

i VO = Vertical test sample stops burning within 10 seconds, draining is not permissible. E-2000™ = LSH, E-2000™ Compact = LSH-RJ

Matching Accessories							
010.2078 							
010.2315							
Page FO 92/92							

GOF Connectors
GOF Pigtails, Patch Cords SC
(SC Simplex, SC Duplex, SC-RJ)



Features

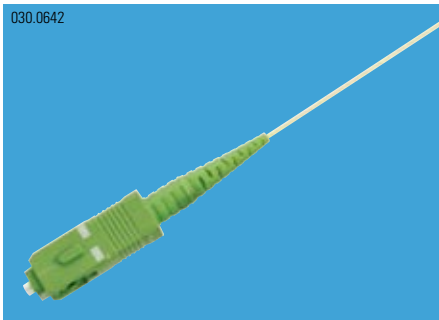
- LSZH cable sheath
- Locking type latched push-pull
- Injection-molded PBT housing UL94 V0 (flammability index)

Ordering Information

Description

PU

Part Number



GOF Pigtail, SC

Supplied:

- One side fitted with SC plug
- Pigtail sheath color: SM G 652.D OS1 = yellow, MM OM1 = blue, MM OM2 = orange, MM OM3 = turquoise (semi-buffer)
- Plug color: SM PC = blue, SM APC 8° = green, MM OM1 = beige, MM OM2 = beige, MM OM3 = beige

APC 8°, green, OS1 (9µm), C, 2.5 m

12

R31015

PC, blue, OS1 (9µm), C, 2.5 m

12

R31014

PC, beige, OM1 (62.5µm), M, 2.5 m

12

R301462

PC, beige, OM2 (50µm), M, 2.5 m

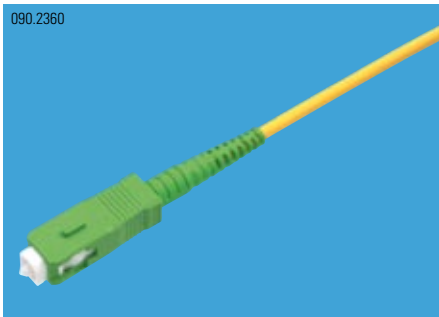
12

R301461

PC, beige, OM3 (50µm), M, 2.5 m

12

R307388



GOF Patch Cord 3 mm, SC APC 8°, green - SC

APC 8°, green, OS1 (9µm), C

Supplied:

- Both sides fitted with SC APC 8° plug
- SM G 652.D (OS1), yellow
- Plug color: green

2 m

1

R31026

3 m

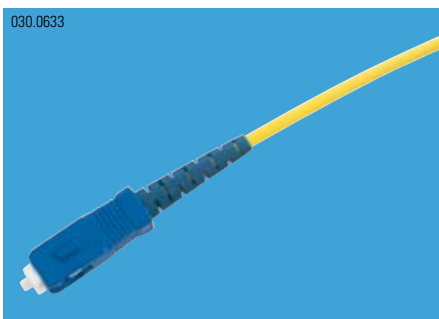
1

R31027

5 m

1

R31029



GOF Patch Cord 3 mm, SC PC, blue - SC PC, blue,

OS1 (9µm), C

Supplied:

- Both sides fitted with SC PC plug
- SM G 652.D (OS1), yellow
- Plug color: blue

2 m

1

R30602

3 m

1

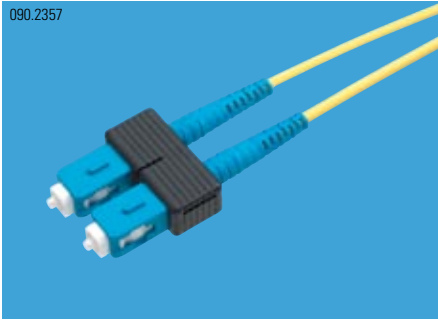
R30603

5 m

1

R30605

090.2357

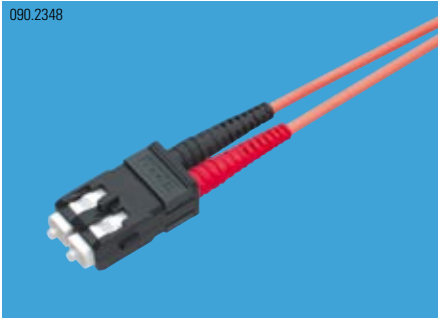


GOF Patch Cord 2.7x5.4 mm, SC Duplex PC, blue
- SC Duplex PC, blue, OS1 (9µm), C

Supplied:
 – Both sides fitted with SC Duplex PC plug
 – SM G 652.D (OS1), yellow
 – Plug color: blue

2 m	1	R303343
3 m	1	R303344
5 m	1	R303346

090.2348



GOF Patch Cord 2.7x5.4 mm, SC-RJ PC, black/
black - SC-RJ PC, black/black, OM1 (62.5µm), M

Supplied:
 – Both sides fitted with SC-RJ PC plug
 – MM (OM1), orange
 – Plug color: black

1 m	1	R30581	●
2 m	1	R30582	●
3 m	1	R30583	●
5 m	1	R30585	●

090.2350

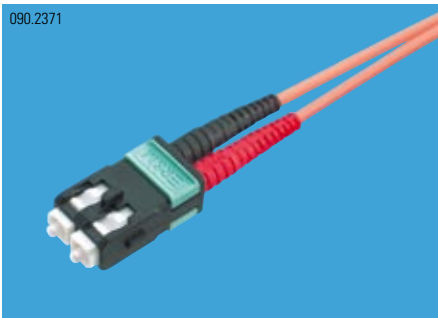


GOF Patch Cord 2.7x5.4 mm, SC-RJ PC, black/
orange - SC-RJ PC, black/orange, OM2 (50µm),
M

Supplied:
 – Both sides fitted with SC-RJ PC plug
 – MM (OM2), orange
 – Plug color: black

1 m	1	R300116	●
2 m	1	R300117	●
3 m	1	R300118	●
5 m	1	R300120	●

090.2371



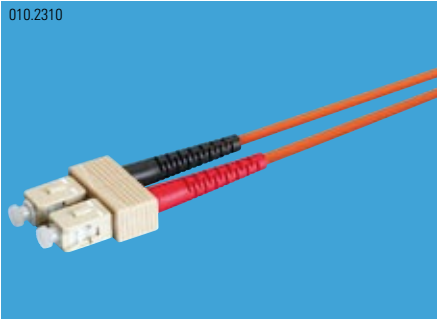
GOF Patch Cord 2.7x5.4 mm, SC-RJ PC, black/
turquoise - SC-RJ PC, black/turquoise, OM3
(50µm), M

Supplied:
 – Both sides fitted with SC-RJ PC plug
 – MM (OM3), orange
 – Plug color: black

1 m	1	R310819	●
2 m	1	R310820	●
3 m	1	R310821	●
5 m	1	R310822	●

GOF Connectors
GOF Pigtails, Patch Cords SC
(SC Simplex, SC Duplex, SC-RJ)

010.2310

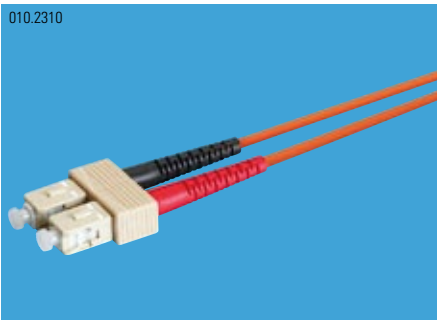


GOF Patch Cord 2.7x5.4 mm, SC Duplex PC, beige - SC Duplex PC, beige, OM1 (62.5µm), M

- Supplied:
- Both sides fitted with SC Duplex PC plug
 - MM (OM1), orange
 - Plug color: beige

1 m	1	R303985	●
2 m	1	R303986	●
3 m	1	R303987	●
5 m	1	R303989	●

010.2310

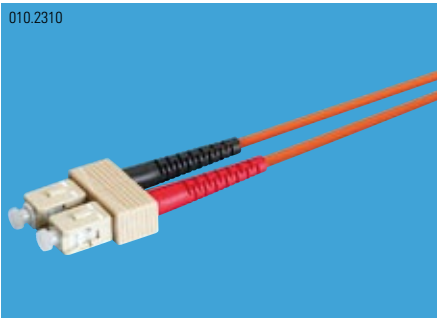


GOF Patch Cord 2.7x5.4 mm, SC Duplex PC, beige - SC Duplex PC, beige, OM2 (50µm), M

- Supplied:
- Both sides fitted with SC Duplex PC plug
 - MM (OM2), orange
 - Plug color: beige

1 m	1	R303980	●
2 m	1	R303981	●
3 m	1	R303982	●
5 m	1	R303984	●

010.2310



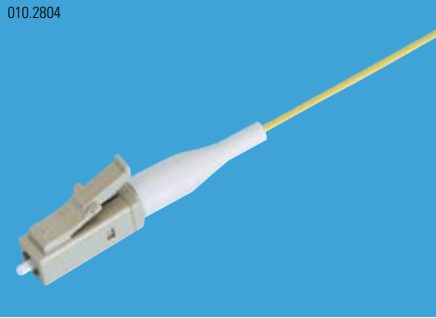
GOF Patch Cord 2.7x5.4 mm, SC Duplex PC, beige - SC Duplex PC, beige, OM3 (50µm), M

- Supplied:
- Both sides fitted with SC Duplex PC plug
 - MM (OM3), orange
 - Plug color: beige

1 m	1	R312877	●
2 m	1	R307527	●
3 m	1	R307528	●
5 m	1	R307529	●

i VO = Vertical test sample stops burning within 10 seconds, draining is not permissible.

010.2804



Features

- Compact design (SFF)
- 1.25 mm ferrule technology
- Locking type latched push-pull
- LSZH cable sheath

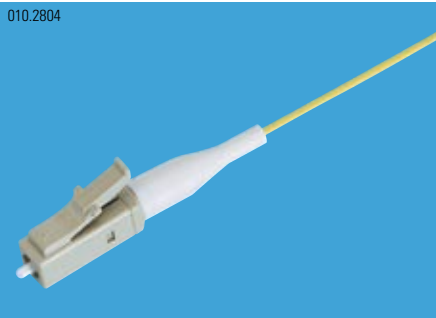
Ordering Information

Description

PU

Part Number

010.2804



GOF Pigtail, LC

Supplied:

- One side fitted with LC plug
- Pigtail sheath color: SM G 652.D OS1 = yellow, MM OM1 = blue, MM OM2 = orange, MM OM3 = turquoise (semi-buffer)
- Plug color: SM PC = blue, SM APC 8° = green, MM OM1 = beige, MM OM2 = beige, MM OM3 = beige

APC 8°, green, OS1 (9µm), C, 2.5 m

12

R308899

PC, blue, OS1 (9µm), C, 2.5 m

12

R308898

PC, beige, OM1 (62.5µm), M, 2.5m

12

R308900

PC, beige, OM2 (50µm), M, 2.5m

12

R308901

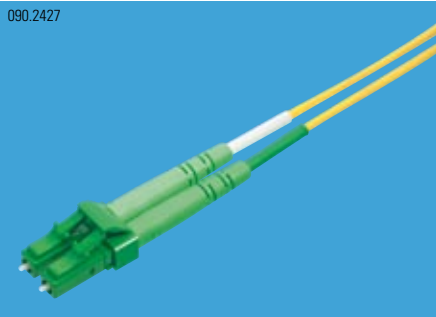
PC, beige, OM3 (50µm), M, 2.5m

12

R308902



090.2427



GOF Patch Cord 2.0x4.1 mm, LC Duplex APC 8°, green - LC Duplex APC 8°, green, OS1 (9µm), C

Supplied:

- Both sides fitted with LC Duplex APC 8° plug
- SM G 652.D (OS1), yellow
- Plug color: green

2 m

1

R308916

3 m

1

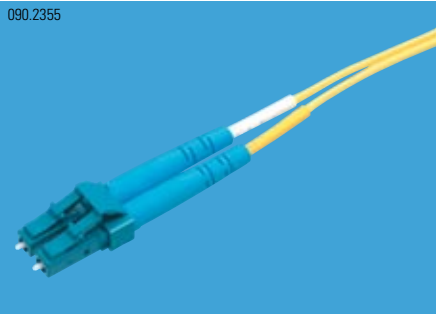
R308917

5 m

1

R308918

090.2355



GOF Patch Cord 2.0x4.1 mm, LC Duplex PC, blue - LC Duplex PC, blue, OS1 (9µm), C

Supplied:

- Both sides fitted with LC Duplex PC plug
- SM G 652.D (OS1), yellow
- Plug color: blue

2 m

1

R308903

3 m

1

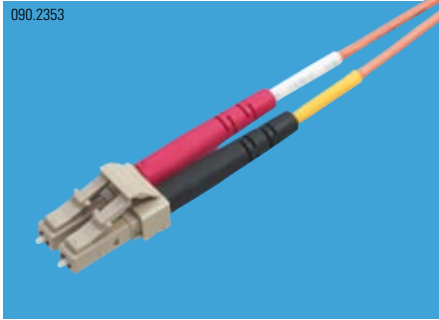
R308904

5 m

1

R308905

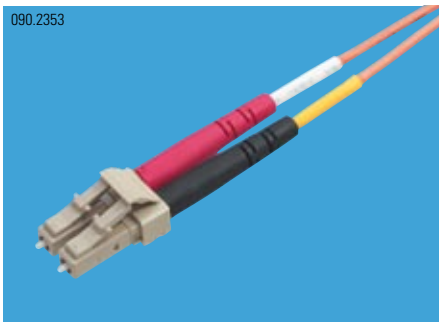
GOF Connectors
GOF Pigtails, Patch Cords LC
(LC Duplex)



GOF Patch Cord 2.0x4.1 mm, LC Duplex PC, beige
- LC Duplex PC, beige, OM1 (62.5µm), M

Supplied:
 – Both sides fitted with LC Duplex PC plug
 – MM (OM1), orange
 – Plug color: beige

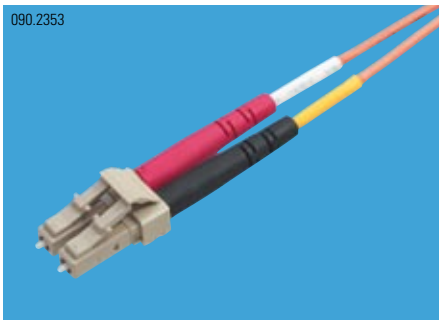
1 m	1	R310296	●
2 m	1	R308926	●
3 m	1	R308927	●
5 m	1	R308928	●



GOF Patch Cord 2.0x4.1 mm, LC Duplex PC, beige
- LC Duplex PC, beige, OM2 (50µm), M

Supplied:
 – Both sides fitted with LC Duplex PC plug
 – MM (OM2), orange
 – Plug color: beige

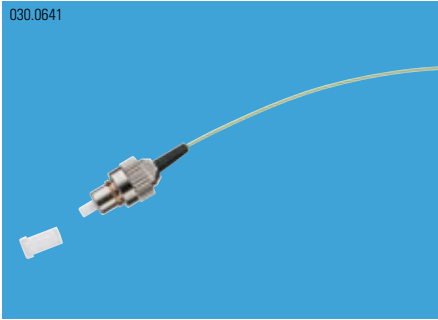
1 m	1	R310292	●
2 m	1	R308938	●
3 m	1	R308939	●
5 m	1	R308940	●



GOF Patch Cord 2.0x4.1 mm, LC Duplex PC, beige
- LC Duplex PC, beige, OM3 (50µm), M

Supplied:
 – Both sides fitted with LC Duplex PC plug
 – MM (OM3), orange
 – Plug color: beige

1 m	1	R310288	●
2 m	1	R308950	●
3 m	1	R308951	●
5 m	1	R308952	●



Features

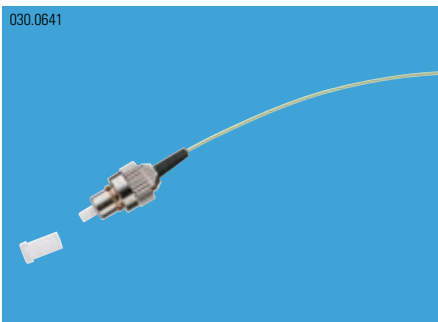
- Screw thread locking type
- 500 mating cycles
- LSZH cable sheath

Ordering Information

Description

PU

Part Number



GOF Pigtail, FC

Supplied:

- One side fitted with FC plug
- Pigtail sheath color: SM G652.D OS1 = yellow (semi-buffer)

APC 8°, OS1 (9µm), C, 2.5 m

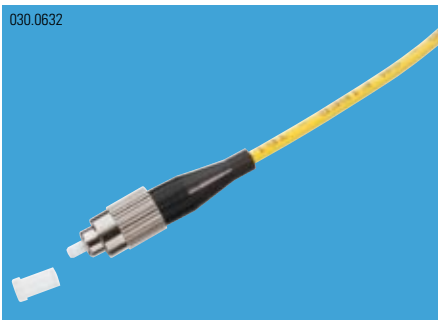
12

R301456

PC, OS1 (9µm), C, 2.5 m

12

R301451



GOF Patch Cord 3 mm, FC APC 8° - FC APC 8°, OS1 (9µm), C

Supplied:

- Both sides fitted with FC APC 8° plug
- SM G652.D (OS1), yellow

2 m

1

R30907

3 m

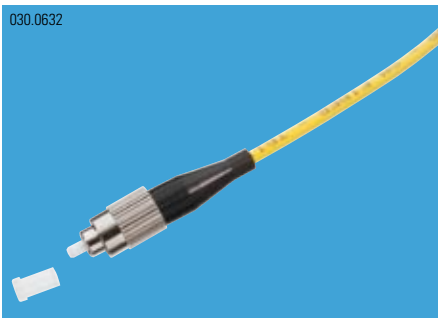
1

R30908

5 m

1

R30910



GOF Patch Cord 3 mm, FC PC - FC PC, OS1 (9µm), C

Supplied:

- Both sides fitted with FC PC plug
- SM G652.D (OS1), yellow

2 m

1

R30902

3 m

1

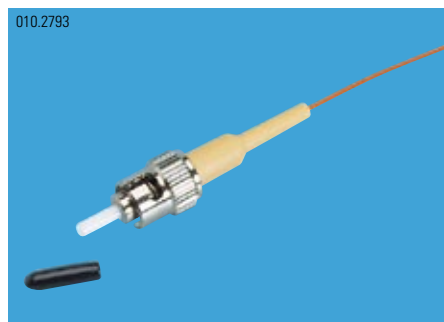
R30903

5 m

1

R30905

GOF Connectors
GOF Pigtails, Patch Cords ST
(2xST)



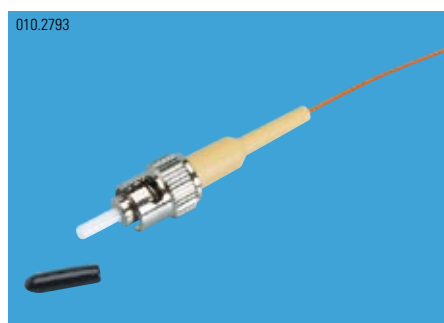
- Features**
- Bayonet locking type
 - 500 mating cycles
 - LSZH cable sheath

Ordering Information

Description

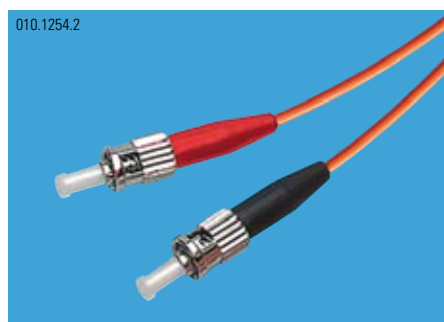
PU

Part Number



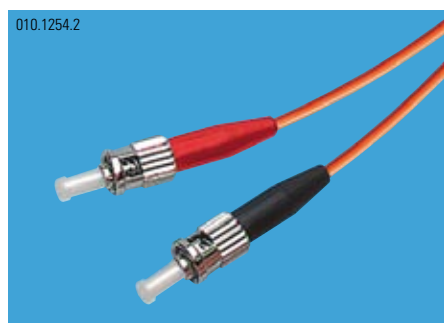
- GOF Pigtail, ST**
 Supplied:
 – One side fitted with ST plug
 – Pigtail sheath color: MM OM1 = blue, MM OM2 = orange, MM OM3 = turquoise (semi-buffer)

PC, OS1 (9µm), D, 2.5 m	12	R313152	●
PC, OM1 (62.5µm), M, 2.5 m	12	R307300	●
PC, OM2 (50µm), M, 2.5 m	12	R307299	●
PC, OM3 (50µm), M, 2.5 m	12	R307387	●



- GOF Patch Cord 2.7x5.4 mm, 2xST PC - 2xST PC, OM1 (62.5µm), M**
 Supplied:
 – Both sides fitted with 2xST PC plug
 – MM (OM1), orange

1 m	1	R30640	●
2 m	1	R30641	●
3 m	1	R30642	●
5 m	1	R30644	●



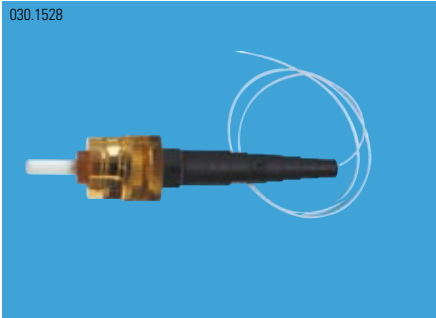
- GOF Patch Cord 2.7x5.4 mm, 2xST PC - 2xST PC, OM2 (50µm), M**
 Supplied:
 – Both sides fitted with 2xST PC plug
 – MM (OM2), orange

1 m	1	R30635	●
2 m	1	R30636	●
3 m	1	R30637	●
5 m	1	R30639	●



- GOF Patch Cord 2.7x5.4 mm, 2xST PC - 2xST PC, OM3 (50µm), M**
 Supplied:
 – Both sides fitted with 2xST PC plug
 – MM (OM3), orange

1 m	1	R307521	●
2 m	1	R307522	●
3 m	1	R307523	●
5 m	1	R307524	●



Features

- The ferrule is pre-assembled with a fiber and a mechanical splice connection
- Field installable without polishing
- Short installation time
- Compatible with customary ST, SC and LC connectors
- For multimode and singlemode applications
- For 0.9 mm to 3 mm cables

Ordering Information	Description	PU	Part Number	
	GOF SC Field-Terminated Supplied: – SC field-terminated			
	OS1 (9µm) blue	10	R305178	●
	OM1 (62.5µm) beige	10	R305180	●
	OM2 (50µm) black	10	R305179	●
	OM3 (50µm) turquoise	10	R314448	●
	GOF ST Field-Terminated Supplied: – ST field-terminated			
	OS1 (9µm) blue	10	R305181	●
	OM1 (62.5µm) beige	10	R305183	●
	OM2 (50µm) black	10	R305182	●
	OM3 (50µm) turquoise	10	R314449	●
	GOF LC Field-Terminated Supplied: – LC field-terminated			
	OS1 (9µm) blue	10	R310561	●
	OM1 (62.5µm) beige	10	R310560	●
	OM2 (50µm) black	10	R310559	●
	OM3 (50µm) turquoise	10	R314447	●

Test	Duration	Test parameters	Type ST	Type SC	Type LC
Insertion loss (max.)			< 0.5 dB	< 0.5 dB	< 0.5 dB
Return loss (min.)			> 20 dB	> 20 dB	> 20 dB
Duration	500 cycles	Connect/disconnect	< 0.3 dB	< 0.3 dB	< 0.3 dB
Temperature cycles	10 cycles (4 cycles/day)	- 40°C to + 70°C	< 0.3 dB	< 0.3 dB	< 0.3 dB
Straight pull		50 N	< 0.3 dB	< 0.3 dB	

i The mechanical crimp connectors type ST, SC and LC allow a simple and fast field termination of single fiber cables.

**GOF Connectors
Tool Kit for Field Termination**



- Features**
- Easy handling
 - Light and compact design
 - Power supply independent
 - Three tools in one kit (ST, SC and LC)
 - Suitable for solid and dry tight buffer

Ordering Information

Description

PU

Part Number

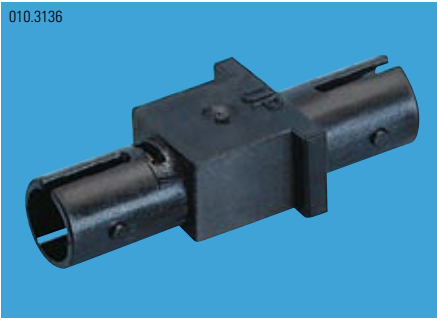


GOF Tool Kit I, Standard ST, SC, LC field-terminated

- Supplied:
- Crimping tool for ST, SC and LC
 - Fiber cleaver
 - Tweezers
 - Primary coating stripper
 - Secondary coating stripper
 - Bag
 - Kevlar scissors
 - Ferrules crimping aid
 - Assembly instructions in English

1

R305186



GOF Adapter CTS for Tool Kit for

- Supplied:
- Adapter CTS

ST
SC
LC

1
1
1

R310556
R310557
R310558



FO Red Light Source for 2.5 mm Ferrules

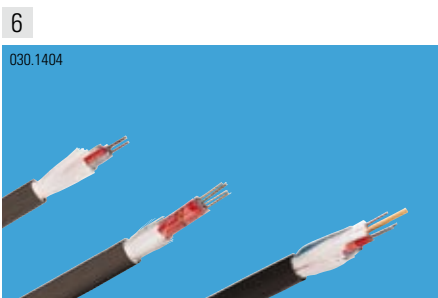
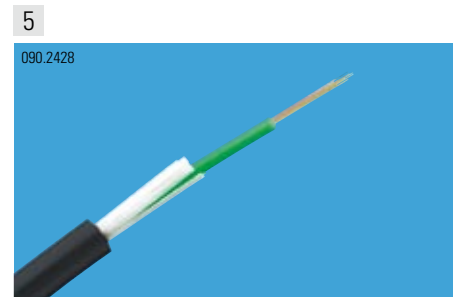
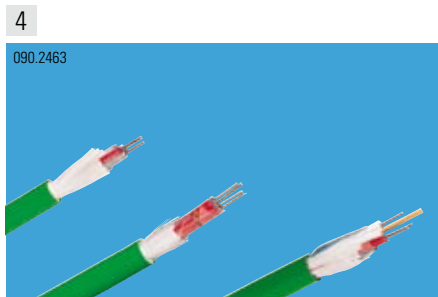
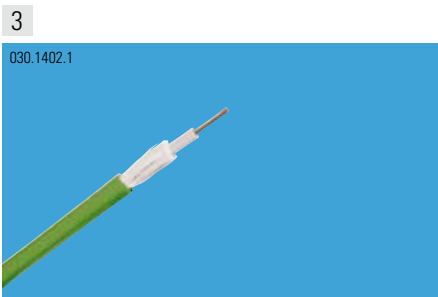
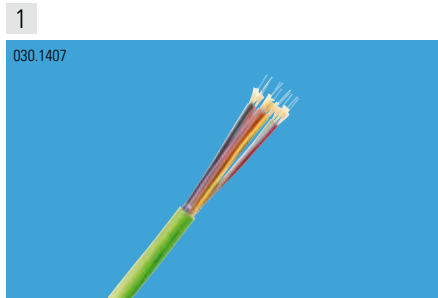
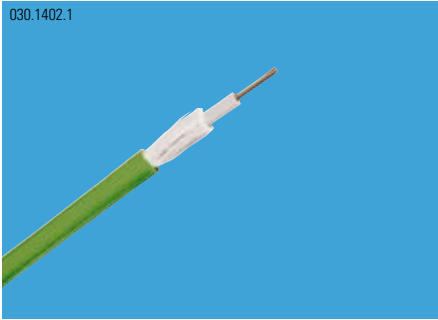
- Supplied:
- Red light source for 2.5 mm ferrules

1

R310632



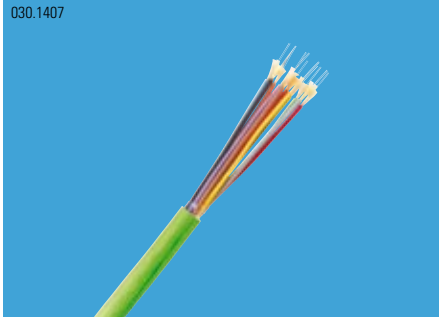
i The CTS Adapter (Continuity Test System) can monitor the light intensity of the scattering light (in the connector housing) from the red light source, ensuring permanently good results while mounting.



Products	Page
1 GOF Breakout Cables	FO 54
2 GOF Mini Breakout Cables	FO 55
3 GOF Central Loose Tube Cables	FO 56
4 GOF Stranded Loose Tube Cables	FO 57
5 GOF Central Loose Tube Cables	FO 58

Products	Page
6 GOF Stranded Loose Tube Cables	FO 59
7 GOF Central Loose Tube Cables	FO 60
8 GOF Stranded Loose Tube Cables	FO 61

GOF Indoor and Outdoor Cables
GOF Breakout Cables
(I-V(ZN)HH)



Features

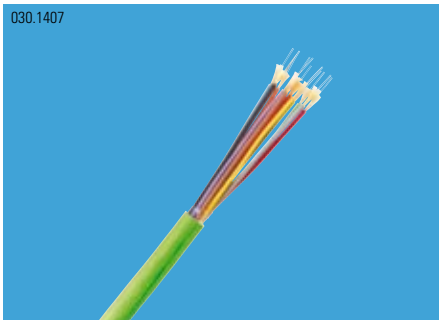
- Indoor cables
- Fiber count 2 - 24
- Enhanced fire resistance
- Number code for individual breakout identification
- Suitable for direct connector fitting
- UV stabilized LSZH sheath (color green)

Ordering Information

Description

PU

Part Number

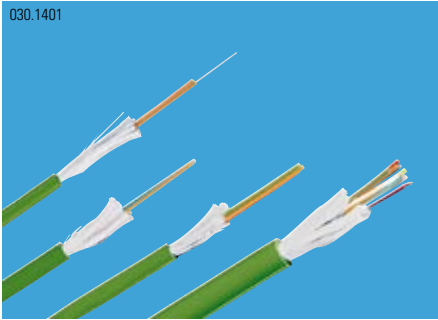


GOF Breakout Cable

- Supplied:
- Breakout Cable I-V(ZN)HH

2 fibers, OM1 (62.5µm)	2000	R314458	●
4 fibers, OM1 (62.5µm)	2000	R314459	●
6 fibers, OM1 (62.5µm)	2000	R314460	●
8 fibers, OM1 (62.5µm)	2000	R314239	●
12 fibers, OM1 (62.5µm)	2000	R314242	●
16 fibers, OM1 (62.5µm)	2000	R314463	●
24 fibers, OM1 (62.5µm)	2000	R314245	●
2 fibers, OM2 (50µm)	2000	R314465	●
4 fibers, OM2 (50µm)	2000	R314466	●
6 fibers, OM2 (50µm)	2000	R314467	●
8 fibers, OM2 (50µm)	2000	R314240	●
12 fibers, OM2 (50µm)	2000	R314243	●
16 fibers, OM2 (50µm)	2000	R314470	●
24 fibers, OM2 (50µm)	2000	R314246	●
2 fibers, OM3 (50µm)	2000	R314472	●
4 fibers, OM3 (50µm)	2000	R314473	●
6 fibers, OM3 (50µm)	2000	R314474	●
8 fibers, OM3 (50µm)	2000	R314241	●
12 fibers, OM3 (50µm)	2000	R314244	●
16 fibers, OM3 (50µm)	2000	R314477	●
24 fibers, OM3 (50µm)	2000	R314247	●
2 fibers, OS1 (9µm)	2000	R314479	●
4 fibers, OS1 (9µm)	2000	R314480	●
6 fibers, OS1 (9µm)	2000	R314481	●
8 fibers, OS1 (9µm)	2000	R314248	●
12 fibers, OS1 (9µm)	2000	R314249	●
16 fibers, OS1 (9µm)	2000	R314484	●
24 fibers, OS1 (9µm)	2000	R314250	●

i Breakout cables find their main use in secondary and tertiary cabling in generic cabling systems. The individual 2.0 mm-breakout elements consist of 900µm tight buffers surrounded by aramide yarn and a green LSZH sheath.



Features

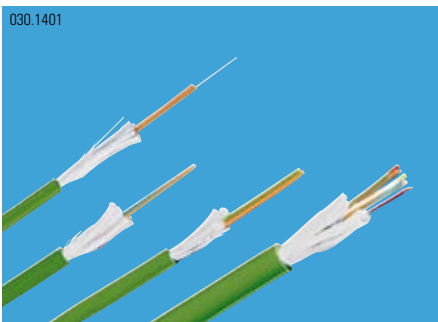
- Indoor cables
- Fiber count 2 - 24
- Good fire resistance
- Glass yarn strength members
- Suitable for direct connector fitting
- UV stabilized LSZH sheath (color green)

Ordering Information

Description

PU

Part Number



GOF Mini Breakout Cable

Supplied:

- Mini breakout cables I-V(ZN)H

2 fibers, OM1 (62.5µm)	2000	R314486	●
4 fibers, OM1 (62.5µm)	2000	R304081	●
6 fibers, OM1 (62.5µm)	2000	R304082	●
8 fibers, OM1 (62.5µm)	2000	R304083	●
12 fibers, OM1 (62.5µm)	2000	R304084	●
16 fibers, OM1 (62.5µm)	2000	R314487	●
24 fibers, OM1 (62.5µm)	2000	R304086	●
2 fibers, OM2 (50µm)	2000	R314488	●
4 fibers, OM2 (50µm)	2000	R304073	●
6 fibers, OM2 (50µm)	2000	R304074	●
8 fibers, OM2 (50µm)	2000	R304075	●
12 fibers, OM2 (50µm)	2000	R304076	●
16 fibers, OM2 (50µm)	2000	R314489	●
24 fibers, OM2 (50µm)	2000	R304078	●
2 fibers, OM3 (50µm)	2000	R314490	●
4 fibers, OM3 (50µm)	2000	R308315	●
6 fibers, OM3 (50µm)	2000	R308316	●
8 fibers, OM3 (50µm)	2000	R308313	●
12 fibers, OM3 (50µm)	2000	R308318	●
16 fibers, OM3 (50µm)	2000	R314491	●
24 fibers, OM3 (50µm)	2000	R308317	●
2 fibers, OS1 (9µm)	2000	R314492	●
4 fibers, OS1 (9µm)	2000	R304135	●
6 fibers, OS1 (9µm)	2000	R304136	●
8 fibers, OS1 (9µm)	2000	R304137	●
12 fibers, OS1 (9µm)	2000	R304138	●
16 fibers, OS1 (9µm)	2000	R314493	●
24 fibers, OS1 (9µm)	2000	R304140	●

i The mini breakout cable is the ideal fiber to the desk solution for direct connector fitting. Its compact design makes for easy installation and where space is limited it is a particularly good value solution. The 900µm tight buffers are individually colored and surrounded by glass yarns.

GOF Indoor and Outdoor Cables
GOF Central Loose Tube Cables
(I/A-DQ(ZN=B)H)

030.1402.1



Features:

- Indoor as well as outdoor cable
- Central loose tube with 2 - 24 fibers
- Individually color coded fibers for identification
- Slight rodent protection through reinforced glass yarns
- UV stabilized LSZH sheath (color green)

Ordering Information

Description

PU

Part Number

030.1402.1



GOF Loose Tube Cable

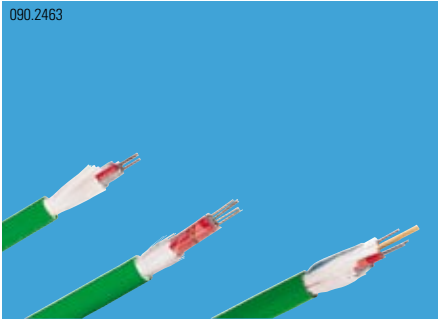
Supplied:

- Loose tube cable I/A-DQ(ZN=B)H

4 fibers, OM1 (62.5µm)	2000	R304093	●
6 fibers, OM1 (62.5µm)	2000	R304094	●
8 fibers, OM1 (62.5µm)	2000	R304095	●
12 fibers, OM1 (62.5µm)	2000	R304096	●
24 fibers, OM1 (62.5µm)	2000	R304097	●
4 fibers, OM2 (50µm)	2000	R304088	●
6 fibers, OM2 (50µm)	2000	R304089	●
8 fibers, OM2 (50µm)	2000	R304090	●
12 fibers, OM2 (50µm)	2000	R304091	●
24 fibers, OM2 (50µm)	2000	R304092	●
4 fibers, OM3 (50µm)	2000	R308217	●
6 fibers, OM3 (50µm)	2000	R308310	●
8 fibers, OM3 (50µm)	2000	R308218	●
12 fibers, OM3 (50µm)	2000	R308214	●
24 fibers, OM3 (50µm)	2000	R308215	●
4 fibers, OS1 (9µm)	2000	R304143	●
6 fibers, OS1 (9µm)	2000	R304145	●
8 fibers, OS1 (9µm)	2000	R304146	●
12 fibers, OS1 (9µm)	2000	R304147	●
24 fibers, OS1 (9µm)	2000	R304148	●



This cable construction features a central gel filled loose tube with a diameter of 2.8 mm for 2 - 16 fibers or 3.5 mm for 18 - 24 fibers. The reinforced glass yarns enhance strength and tensile force, making it your ideal partner for secondary cabling applications (backbone) in generic cabling systems.



Features

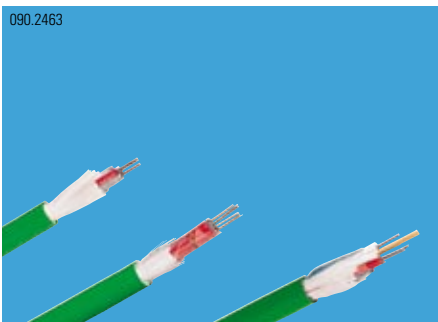
- Indoor as well as outdoor cable
- Fiber count 12 - 216 (stranded loose tubes)
- Excellent mechanical properties
- Water tight thanks to swelling tape
- Slight rodent protection through glass yarns
- UV stabilized LSZH sheath (color green)

Ordering Information

Description

PU

Part Number



GOF Loose Tube Cable

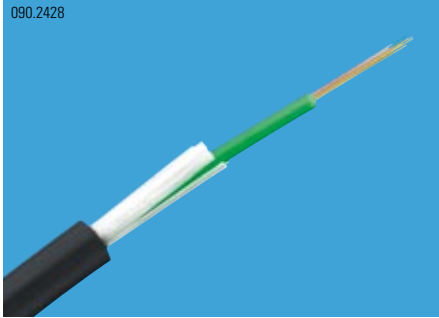
Supplied:

- Stranded loose tube cable I/A-DQ(ZN=B)H

1x12 fibers, OM1 (62.5µm)	2000	R314494	●
2x12 fibers, OM1 (62.5µm)	2000	R314495	●
4x12 fibers, OM1 (62.5µm)	2000	R314497	●
6x12 fibers, OM1 (62.5µm)	2000	R314498	●
8x12 fibers, OM1 (62.5µm)	2000	R314499	●
12x12 fibers, OM1 (62.5µm)	2000	R314500	●
1x12 fibers, OM2 (50µm)	2000	R314501	●
2x12 fibers, OM2 (50µm)	2000	R314502	●
4x12 fibers, OM2 (50µm)	2000	R314503	●
6x12 fibers, OM2 (50µm)	2000	R314504	●
8x12 fibers, OM2 (50µm)	2000	R314505	●
12x12 fibers, OM2 (50µm)	2000	R314506	●
1x12 fibers, OM3 (50µm)	2000	R314507	●
2x12 fibers, OM3 (50µm)	2000	R314508	●
4x12 fibers, OM3 (50µm)	2000	R314509	●
6x12 fibers, OM3 (50µm)	2000	R314510	●
8x12 fibers, OM3 (50µm)	2000	R314511	●
12x12 fibers, OM3 (50µm)	2000	R314512	●
1x12 fibers, OS1 (9µm)	2000	R314513	●
2x12 fibers, OS1 (9µm)	2000	R314514	●
4x12 fibers, OS1 (9µm)	2000	R314515	●
6x12 fibers, OS1 (9µm)	2000	R314516	●
8x12 fibers, OS1 (9µm)	2000	R314517	●
12x12 fibers, OS1 (9µm)	2000	R314518	●

i The solution for high fiber-count links within buildings. The cable's compact construction of stranded gel-filled loose tubes, the blocking swelling tape for water tightness, and most of all its excellent mechanical properties make it the perfect choice.

GOF Indoor and Outdoor Cables
GOF Central Loose Tube Cables
(with Rodent Protection A-DQ(ZN)B2Y)



Features

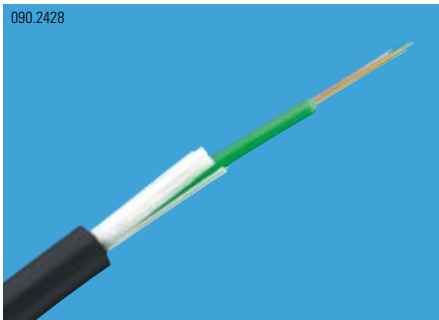
- Outdoor cable
- Central loose tube with 2 - 24 fibers
- Individually color coded fibers for identification
- Glass yarn rodent protection
- UV stabilized LLDPE sheath (color black)

Ordering Information

Description

PU

Part Number



GOF Loose Tube Cable

Supplied:

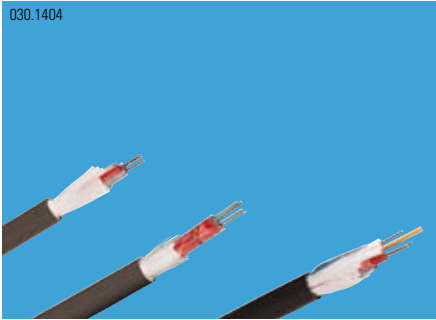
- Central loose tube cable with rodent protection A-DQ(ZN)B2Y

4 fibers, OM1 (62.5µm)	2000	R314519	●
6 fibers, OM1 (62.5µm)	2000	R312789	●
8 fibers, OM1 (62.5µm)	2000	R314520	●
12 fibers, OM1 (62.5µm)	2000	R304153	●
24 fibers, OM1 (62.5µm)	2000	R304154	●
4 fibers, OM2 (50µm)	2000	R314521	●
6 fibers, OM2 (50µm)	2000	R312791	●
8 fibers, OM2 (50µm)	2000	R314522	●
12 fibers, OM2 (50µm)	2000	R304150	●
24 fibers, OM2 (50µm)	2000	R304151	●
4 fibers, OM3 (50µm)	2000	R314523	●
6 fibers, OM3 (50µm)	2000	R312792	●
8 fibers, OM3 (50µm)	2000	R314524	●
12 fibers, OM3 (50µm)	2000	R311387	●
24 fibers, OM3 (50µm)	2000	R311388	●
4 fibers, OS1 (9µm)	2000	R314525	●
6 fibers, OS1 (9µm)	2000	R312797	●
8 fibers, OS1 (9µm)	2000	R314526	●
12 fibers, OS1 (9µm)	2000	R304156	●
24 fibers, OS1 (9µm)	2000	R304157	●



The outdoor cable for cable and supply ducts. The design is a central gel-filled loose tube of a diameter of 2.8 mm for 2 - 16 fibers and 3.5 mm for 18 - 24 fibers. Specially processed and reinforced glass yarns provide the cable's rodent protection.

030.1404



Features

- Outdoor cables
- Fiber count 12 - 216 (stranded loose tubes)
- Excellent mechanical properties
- Water tight thanks to swelling tape
- Glass yarn rodent protection
- UV stabilized MDPE sheath (color black)

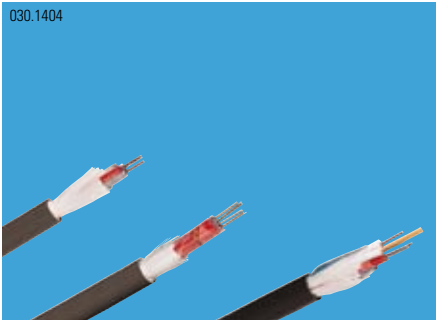
Ordering Information

Description

PU

Part Number

030.1404



GOF Loose Tube Cable

Supplied:

- Stranded loose tube cable with rodent protection A-DQ(ZN)B2Y

1x12 fibers, OM1 (62.5µm)	2000	R314527	●
2x12 fibers, OM1 (62.5µm)	2000	R314528	●
4x12 fibers, OM1 (62.5µm)	2000	R304155	●
6x12 fibers, OM1 (62.5µm)	2000	R314529	●
8x12 fibers, OM1 (62.5µm)	2000	R314530	●
12x12 fibers, OM1 (62.5µm)	2000	R314531	●
1x12 fibers, OM2 (50µm)	2000	R314532	●
2x12 fibers, OM2 (50µm)	2000	R314533	●
4x12 fibers, OM2 (50µm)	2000	R304152	●
6x12 fibers, OM2 (50µm)	2000	R314534	●
8x12 fibers, OM2 (50µm)	2000	R314535	●
12x12 fibers, OM2 (50µm)	2000	R314536	●
1x12 fibers, OM3 (50µm)	2000	R314537	●
2x12 fibers, OM3 (50µm)	2000	R314538	●
4x12 fibers, OM3 (50µm)	2000	R311389	●
6x12 fibers, OM3 (50µm)	2000	R314539	●
8x12 fibers, OM3 (50µm)	2000	R314540	●
12x12 fibers, OM3 (50µm)	2000	R314541	●
1x12 fibers, OS1 (9µm)	2000	R314542	●
2x12 fibers, OS1 (9µm)	2000	R314451	●
4x12 fibers, OS1 (9µm)	2000	R304158	●
6x12 fibers, OS1 (9µm)	2000	R314452	●
8x12 fibers, OS1 (9µm)	2000	R314453	●
12x12 fibers, OS1 (9µm)	2000	R314454	●

i The solution for high fiber-count campus links requiring higher mechanical properties. The stranded gel-filled loose tubes are encased by a blocking swelling tape and reinforced glass yarns for water tightness and rodent protection.

GOF Indoor and Outdoor Cables
GOF Central Loose Tube Cables
(with Steel-Armored A-D(ZN)W2Y)

030.1422



Features

- Outdoor cable for applications in harsh conditions
- Central loose tube with 2 - 24 fibers
- Individually color-coded fibers for identification
- Reinforced rodent protection with corrugated steel
- UV stabilized MDPE sheath (color black)

Ordering Information

Description

PU

Part Number

030.1422



GOF Loose Tube Cable

Supplied:

- Central steel-armored loose tube cable A-D(ZN)W2Y

Description	PU	Part Number	
6 fibers, OM1 (62.5µm)	2000	R312796	●
8 fibers, OM1 (62.5µm)	2000	R314455	●
12 fibers, OM1 (62.5µm)	2000	R304213	●
24 fibers, OM1 (62.5µm)	2000	R304214	●
6 fibers, OM2 (50µm)	2000	R312795	●
8 fibers, OM2 (50µm)	2000	R314456	●
12 fibers, OM2 (50µm)	2000	R304210	●
24 fibers, OM2 (50µm)	2000	R304211	●
6 fibers, OM3 (50µm)	2000	R312794	●
8 fibers, OM3 (50µm)	2000	R314457	●
12 fibers, OM3 (50µm)	2000	R311390	●
24 fibers, OM1 (62.5µm)	2000	R311391	●
6 fibers, OS1 (9µm)	2000	R312793	●
8 fibers, OS1 (9µm)	2000	R314543	●
12 fibers, OS1 (9µm)	2000	R304216	●
24 fibers, OS1 (9µm)	2000	R304217	●

i The outdoor cable for applications in harsh conditions. It contains a central gel-filled loose tube of a diameter of 2.8 mm for 2 - 16 fibers or 3.5 mm for 18 - 24 fibers. The outer sheath is made of a 0.155 mm corrugated steel armor plus a 1.5 mm PE sheath.

030.1422



Features

- Outdoor cable for direct ground installations
- Fiber count 6 - 96 (stranded loose tubes)
- Water tight cable core
- Reinforced rodent protection with steel armor
- UV stabilized MDPE sheath (color black)

Ordering Information

Description

PU

Part Number

030.1422



GOF Loose Tube Cable

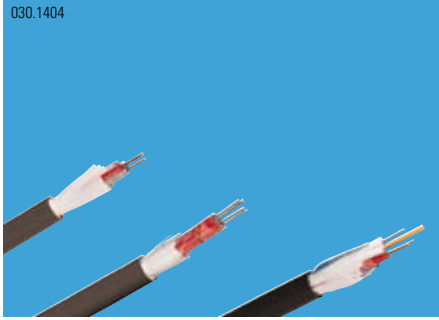
Supplied:

- Stranded steel-armored loose tube cable A-DF(ZN)2YW2Y

1x12 fibers, OM1 (62.5µm)	2000	R314544	●
2x12 fibers, OM1 (62.5µm)	2000	R314545	●
4x12 fibers, OM1 (62.5µm)	2000	R304215	●
6x12 fibers, OM1 (62.5µm)	2000	R314546	●
8x12 fibers, OM1 (62.5µm)	2000	R314547	●
1x12 fibers, OM2 (50µm)	2000	R314548	●
2x12 fibers, OM2 (50µm)	2000	R314549	●
4x12 fibers, OM2 (50µm)	2000	R304212	●
6x12 fibers, OM2 (50µm)	2000	R314550	●
8x12 fibers, OM2 (50µm)	2000	R314551	●
1x12 fibers, OM3 (50µm)	2000	R314552	●
2x12 fibers, OM3 (50µm)	2000	R314553	●
4x12 fibers, OM3 (50µm)	2000	R311392	●
6x12 fibers, OM3 (50µm)	2000	R314554	●
8x12 fibers, OM3 (50µm)	2000	R314555	●
1x12 fibers, OS1 (9µm)	2000	R314556	●
2x12 fibers, OS1 (9µm)	2000	R314557	●
4x12 fibers, OS1 (9µm)	2000	R304218	●
6x12 fibers, OS1 (9µm)	2000	R314558	●
8x12 fibers, OS1 (9µm)	2000	R314559	●

i The solution for installations directly in the ground in difficult environments. The cable features an inner and an outer PE sheath. The cavities between the stranded gel-filled loose tubes are filled with gel, also ensuring water tightness. Underneath the outer sheath the cable is surrounded by an 0.155 mm corrugated steel armor (ECCS).

GOF Indoor and Outdoor Cables
GOF Stranded Loose Tube Cables
(Aerial ADSS A-DF(ZN)2YQ(ZN)2Y)



Features

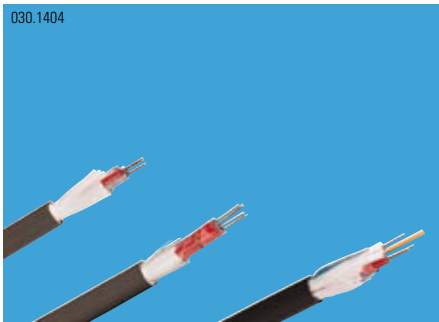
- Dielectric aerial cables ADSS
- Fiber count 6 - 96 (stranded loose tube)
- Water tight cable core
- Suitable for all standard span equipment
- High-voltage resistance of up to 132kV
- UV resistant HDPE sheath (color black)

Ordering Information

Description

PU

Part Number



GOF Loose Tube Cable

Supplied:

- Stranded loose tube aerial cable ADSS A-DF(ZN)2YQ(ZN)2Y

Description	PU	Part Number	
1x12 fibers, OM1 (62.5µm)	2000	R314560	●
2x12 fibers, OM1 (62.5µm)	2000	R314561	●
4x12 fibers, OM1 (62.5µm)	2000	R314562	●
6x12 fibers, OM1 (62.5µm)	2000	R314563	●
8x12 fibers, OM1 (62.5µm)	2000	R314564	●
1x12 fibers, OM2 (50µm)	2000	R314565	●
2x12 fibers, OM2 (50µm)	2000	R314566	●
4x12 fibers, OM2 (50µm)	2000	R314567	●
6x12 fibers, OM2 (50µm)	2000	R314568	●
8x12 fibers, OM2 (50µm)	2000	R314569	●
1x12 fibers, OM3 (50µm)	2000	R314570	●
2x12 fibers, OM3 (50µm)	2000	R314571	●
4x12 fibers, OM3 (50µm)	2000	R314572	●
6x12 fibers, OM3 (50µm)	2000	R314573	●
8x12 fibers, OM3 (50µm)	2000	R314574	●
1x12 fibers, OS1 (9µm)	2000	R314575	●
2x12 fibers, OS1 (9µm)	2000	R314576	●
4x12 fibers, OS1 (9µm)	2000	R314577	●
6x12 fibers, OS1 (9µm)	2000	R314578	●
8x12 fibers, OS1 (9µm)	2000	R314579	●



The solution for aerial applications. The cavities in between the loose tubes are filled with gel, ensuring water-blocking performance. Span lengths of 250 meters and more are possible, also thanks to a swelling tape and aramide yarns underneath the outer sheath.

010.1774



Fiber to the home, fiber to the office, and fiber to the desk; these solutions are much more than catchwords and have definitively found their way into today's planning standard. R&M's product range provides a wide range of outlets for all current fiber-optic connectors (SC, ST, SC-RJ). All duct-mounted, wall-mounted, and floorbox solutions match the customary installation materials used by various European manufactures.

1

030.1429


Products
Page

1 GOF Data Outlets	FO 64
2 Mounting Options	FO 66

GOF Outlets
GOF Data Outlets



Features

- GOF outlet for the termination of 4 or 8 fibers
- Snap-on holders for different FO adapters
- Angled 80° outlet for optimum cable and connector relief
- Ideal for pre-terminated and field-terminated cables
- In certain conditions the FO Duct Outlet is also suitable for flush-mounted installation

Ordering Information

Description

PU

Part Number



GOF Duct Outlet

- Supplied:
- Outlet
 - Front panel equipped with adapters:

- 4x SC-RJ, M, PhBr MM**
- 2x SC Duplex, M, PhBr MM**
- 4x ST, M, PhBr MM**

1	R303496
1	R303462
1	R303458



GOF Outlet SM



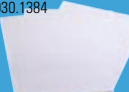


- Supplied:
- Outlet
 - Front panel equipped with adapters (R304971) with out adapters (R309373):

- 2xSC Duplex, M, PhBr MM**
- for 2xSC-RJ or 2xE-2000™ Compact**

1	R304971
1	R309373



 Color pure white

Matching Modules and Accessories							
 010.1788  010.1789 Page FO 95/95	 030.1384  020.0700 Page FO 95/37	 010.2159 Page FO 34					



Features

- GOF outlet for the termination of 4 or 8 fibers
- Snap-on holders for different FO adapters
- Angled 80° outlet for optimum cable and connector relief
- Integral cable management in the FO Floorbox Outlet
- Ideal for pre-terminated as well as field-terminated cables

Ordering Information

Description

PU

Part Number



GOF Floorbox Outlet U-GB

Supplied:

- Outlet
- Front panel equipped with adapters:

2x SC-RJ, M, PhBr MM

1

R303469



2x SC Duplex, M, PhBr MM

1

R303476



4x ST, M, PhBr MM

1

R303472



i Color creme white, also suitable for various other subfloor systems (Ackermann, Niedax/Elektraplan and OBO/Bettermann), Fiber optics and copper RJ45 combination possible

GOF Outlets Mounting Options

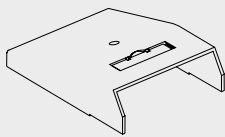
The wide range of FO outlets offered in R&M's VISIONsystem allows the use of fiber optic connectors in various installation types such as:

- Cable conduits
- Subfloor systems (flush-mounted floorboxes)

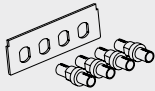
These FO Outlets permit termination of up to 8 fibers using Simplex or Duplex adaptors from R&M's VISIONsystem's product range.

FO Duct Outlet

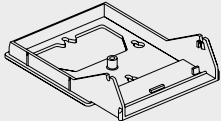
030.1348



Cover



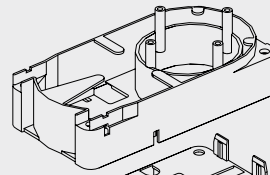
Adapter holder



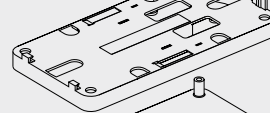
Mounting plate

Dimensions: 112 x 81 x 30 (mm)

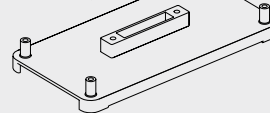
030.1349



Cable reservoir



Splice deposit
(optional)

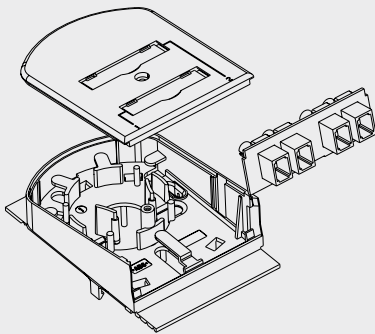


Mounting plate

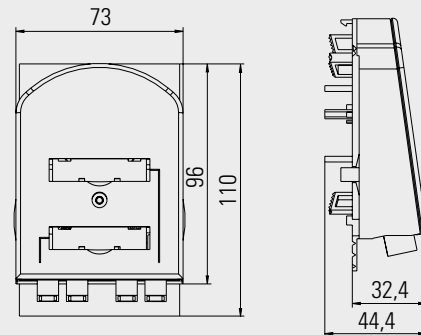
Dimensions: 151-x-76 56/61 (mm)

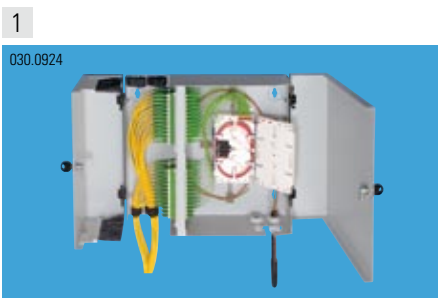
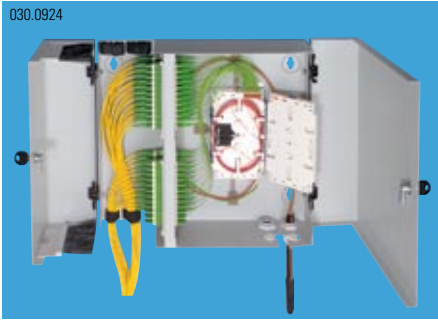
FO Floorbox Outlet (for subfloor systems)

030.1351



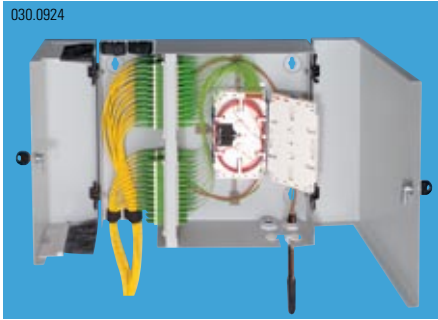
030.1352





Products	Page
1 FO FiberCon 48	FO 68
2 GOF Venus Box Type FLA	FO 69
3 GOF Box IP54	FO 71

GOF Small Distributors
FO FiberCon 48



R&M's FiberCon 48 is a classic wall-mount splice distributor designed to split up multi-conductor loose tube cables or pre-terminated cables in vertical shafts for tertiary cabling. It offers the choice of 4 part front plates (48 ports) and/or splice trays for 96 splices. Its modular design allows the FiberCon 48 to meet all requirements.

Ordering Information

Description

PU

Part Number



FO FiberCon for 48 GOF fibers

Supplied:

- Assembled housing
- Bottom plate holds splice trays radius 30 mm or 40 mm
- 2 plastic PG 16 screwed closures
- 3 cable holders

1

R300974



Matching Modules and Accessories							
030.0011	010.0841	030.0307	030.0640	010.2159	090.2440	010.0879	020.0700
Page FO 96/96	Page FO 76/77	Page FO 97/97	Page FO 97/34	Page FO 34/34	Page FO 36/36	Page FO 36/36	Page FO 37/37

010.3118



Features

- The Venus box is designed for cable-to-cable splicing and cable termination
- The cable-to-cable splicing version comes with one splice tray
- Direct wall and wood pole mounting possible
- Complies with protection index IP43 or IP54 respectively
- The snap lock feature prevents accidental opening of the cover in case of vibrations
- The box can be sealed or locked with a cylinder lock or padlock

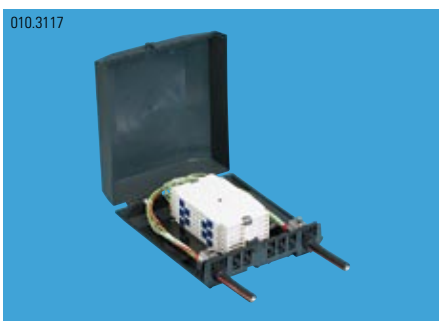
Ordering Information

Description

PU

Part Number

010.3117



GOF Venus FLA for cable-to-cable splicing

Supplied:

- Venus Box
- Base plate
- Grounding clamp
- 1 splice tray R30 incl. cover
- 2 L.E. (local exchange) entry plugs for cables of Ø 10 to 25 mm
- 2 quick installer clamps for L.E. cables
- Cable entry plug for 5 cables of Ø 5 to 13 mm
- Installation instructions

without cylinder lock

1

R309493



Protection class IP54, extendable with up to 6 splice trays R30.

010.3117



GOF Venus FLA for cable-to-cable splicing

Supplied:

- Venus Box incl. cylinder lock and key
- Base plate
- Grounding clamp
- 1 splice tray R30 incl. cover
- 2 L.E. cable entry plugs for cables of Ø 10 to 25 mm
- 2 quick installer clamps for L.E. cables
- Cable entry plug for 5 cables of Ø 5 to 13 mm
- Installation instructions

with cylinder lock

1

R310761



Protection class IP54, extendable with up to 4 splice trays R30.



GOF Venus Box FLA for

- Supplied:
- Venus Box
 - Base plate
 - Grounding clamp
 - Front plate for 12 LSH, SC or 6 LC Duplex adapters
 - 1 excess cable tray and 1 splice tray R30 incl. cover
 - 2 L.E. cable entry plugs for cables of Ø 10 to 25 mm
 - 1 quick installer clamp for L.E. cables
 - 1 dropwire entry plug for patch cords
 - Installation instructions

E-2000™/SC/LCduz, without cylinder lock	1	R309491
ST/FC, without cylinder lock	1	R309784

 Protection class IP43















GOF Venus Box FLA for

- Supplied:
- Venus Box
 - Base plate
 - Grounding clamp
 - Front plate for 12 LSH, SC or 6 LC Duplex adapters
 - 1 excess cable tray and 1 splice tray R30 incl. cover
 - 2 L.E. cable entry plugs for cables of Ø 10 to 25 mm
 - 1 quick installer clamp for L.E. cables
 - 1 dropwire entry plug for patch cords
 - Cylinder lock plus key
 - Installation instructions

E-2000™/SC/LCduz, with cylinder lock	1	R309492
ST/FC, with cylinder lock	1	R309785

 Protection class IP43

 Entry plugs are included with the Venus Box. For accessories please see the VS Compact catalog.

Matching Modules and Accessories							
 030.0308	 030.0640	 090.2440	 010.2792	 090.2441	 030.0642		
 030.0643	 030.0636	 090.2438	 090.2442	 010.2804			
Page FO 97/41	Page FO 34/36	Page FO 36/36	Page FO 38/38	Page FO 38/47	Page FO 44		



Features

- Bending radius 40 mm
- Protection class against dust and moisture IP54
- Lockable splicing area
- Box for R&M modules
- Spacious loose tube deposit

Ordering Information

Description

PU

Part Number




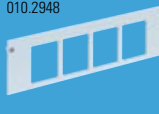



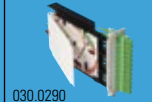

FO Small Distributor Box IP54

- Supplied:
- Small distributor box IP54
 - 1 cable screw M20
 - 3 sealing studs
 - Fastening material
 - Instruction manual

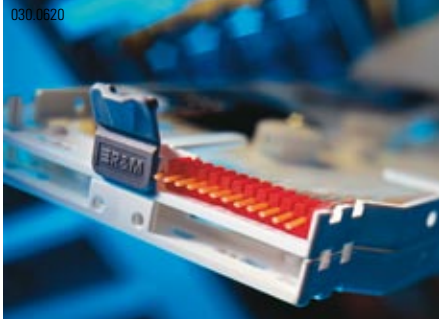
1

R308497



Matching Modules and Accessories							
 010.2051.1	 010.2948	 090.2389	 010.2701				
 010.2051		 030.0290	 030.0289				
Page FO 26/26	Page FO 96	Page FO 94/23	Page FO 23/25				

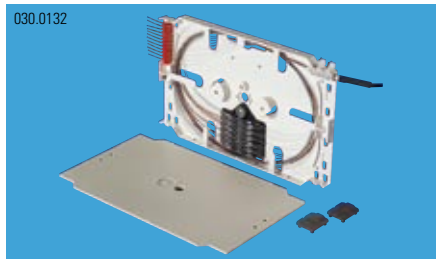
FO Splice Trays



The characteristic of R&M's splice trays are highest modularity and maximum operational convenience. The accompanying wide range of complementary elements make them universally applicable components.

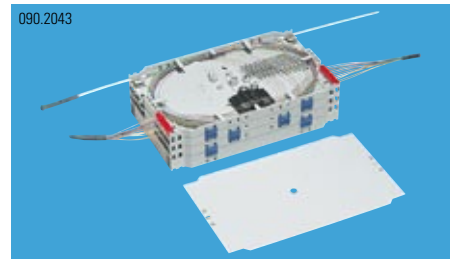
3

030.0132



4

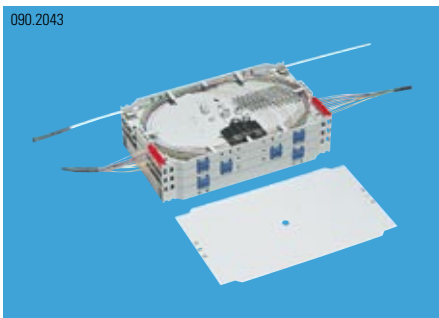
090.2043



Products

Page

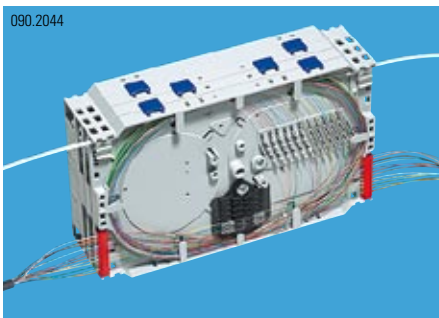
1 Customer Benefits	FO 73
2 System Description	FO 74
3 FO Splice Tray Radius 30 mm	FO 76
4 FO Splice Tray Radius 40 mm	FO 78



The stackable splice trays offer optimum accessibility.



Individual snap-on tension-relief bridges for different fiber diameters.

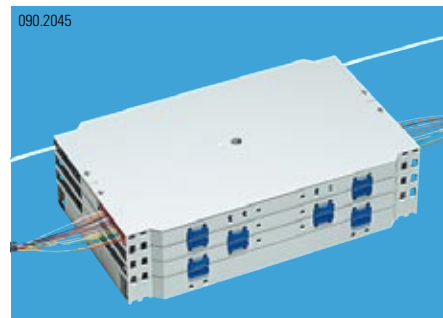


Four loose-tube fastening options.

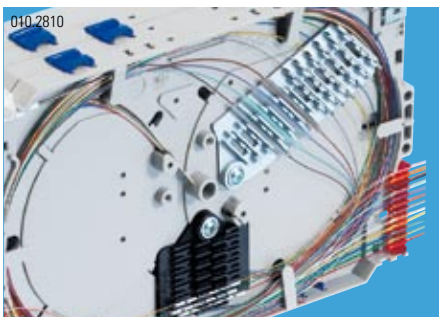
get more

- More modularity
- More convenience
- More radius

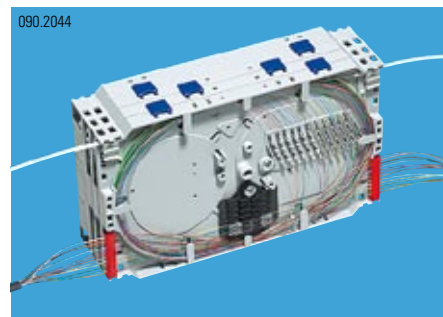
@ R&M



Lockable cover.



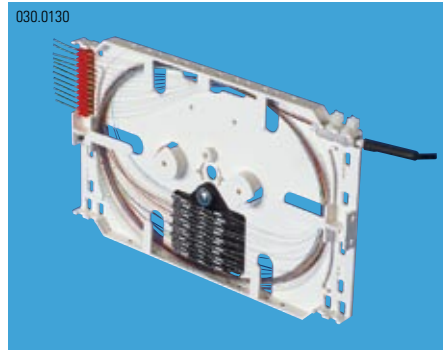
Splice holders for all known splice systems.



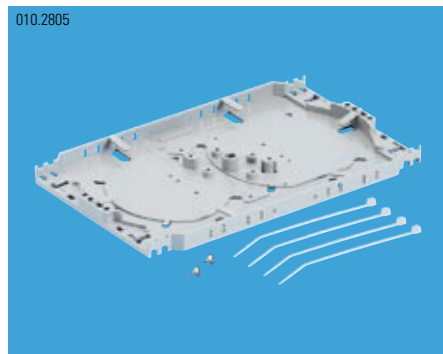
Combinable entry for different types of cables and fibers.

FO Splice Trays
System Description

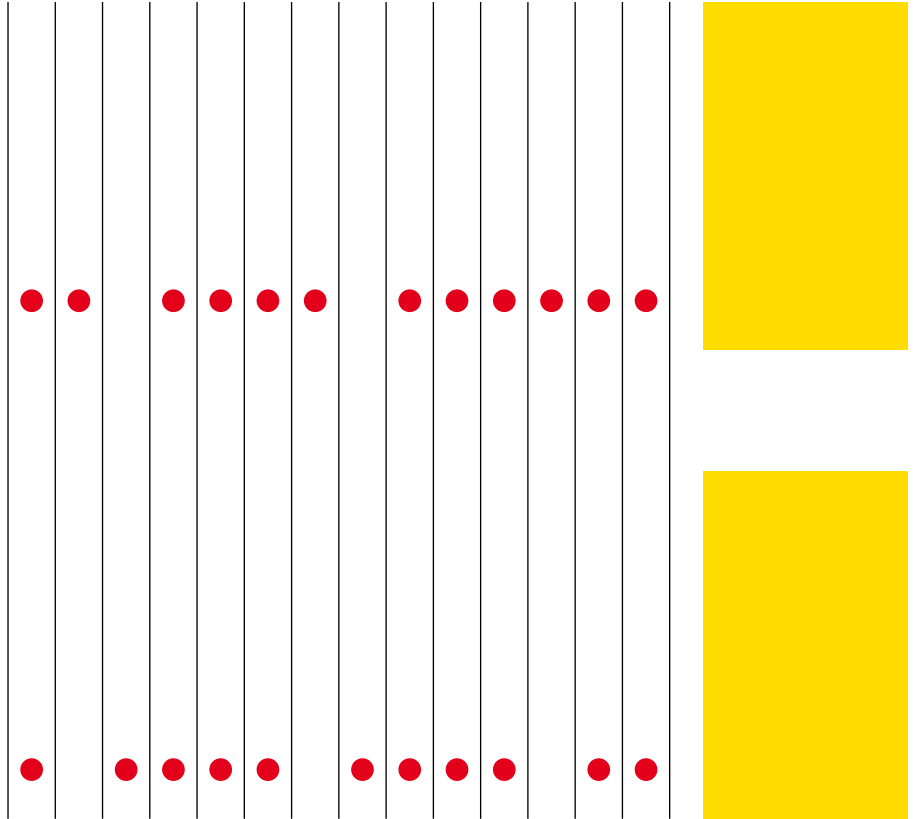
Splice Tray Radius 30 mm



Splice Tray Radius 40 mm



- Stackable with film hinges, small, blue
- Stackable with insert hinges, large
- Snap-on cover
- Cover fastened with central screw
- Tension-relief bridge for optical fibers $\varnothing 0.9-1.1$ mm
- Tension-relief bridge for optical fibers $\varnothing 1.9-2.1$ mm
- Bending radius > 30 mm
- Bending radius > 40 mm
- Changing direction through fiber crossovers
- Holders for various splice systems
- Depositing unused fibers
- Closing band fastening
- Labeling strips
- Plastic screw for splice tray



All of R&M's splice trays excel through highest modularity and exceptional ease of use. Thanks to the additional wide range of supplementary elements, they are truly universal components. A maximum accessibility to lower splice trays is achieved by hinged stacking of the splice trays.

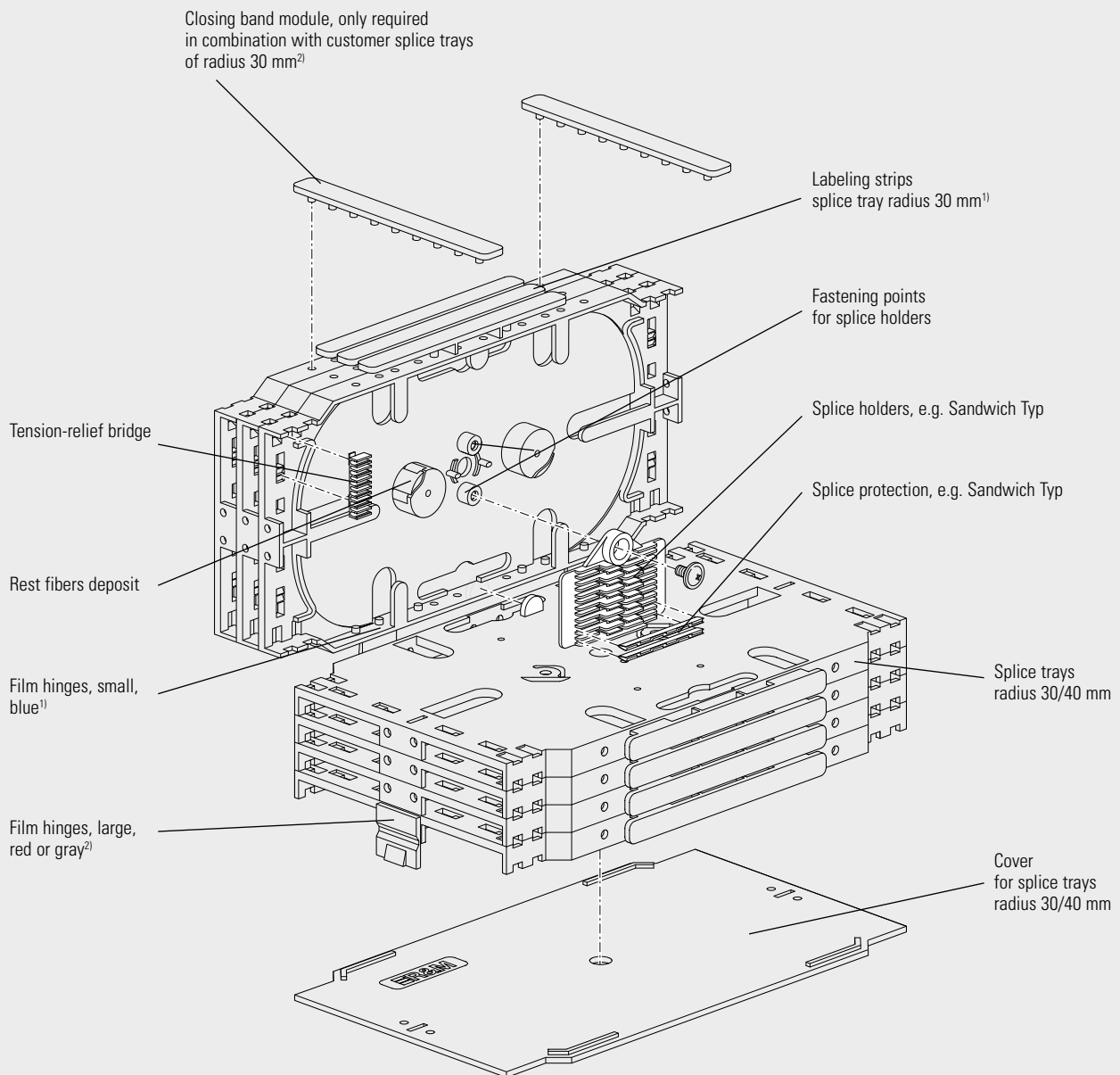
The various splice holders, adaptable for all R&M splice trays, provide convenient, safe and protected storage areas for splices.

¹⁾ For use with splice trays radius 30/40 mm.

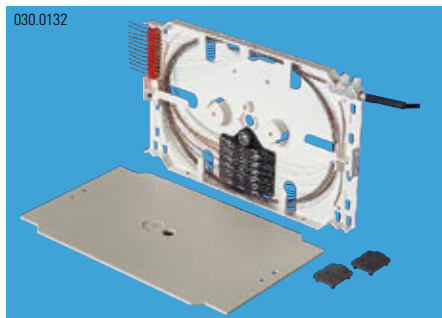
²⁾ For use with splice tray radius 40 mm.

R&M Splice Tray (R30279)

030.0565.1



FO Splice Trays
FO Splice Tray Radius 30 mm



Features

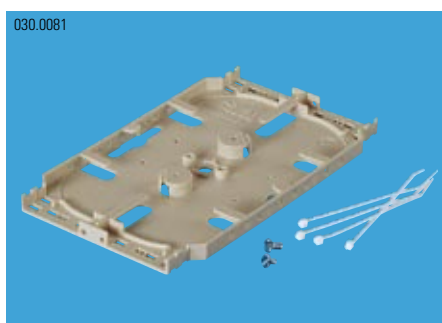
- Capacity of 12 or 24 splice connections
- Stackable trays, featuring hinges and fixing strap
- Min. 1.5 m spare length per fiber
- Hinge-fastened cover
- Storing option for unspliced fibers
- Removable fiber hold-down plates for large splice holders
- Bending radius 32 mm
- Compliant with standards of Deutsche Telekom

Ordering Information

Description

PU

Part Number



FO Splice Tray R30

Supplied:

- 1 splice tray radius R30
- 4 cable ties
- 2 screws for splice holder

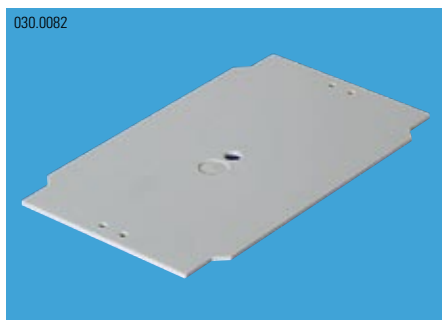
Material: ABS

Color: white

Dimensions: 92 x 8 x 155 mm (W x H x D)

1

R30279



FO Cover for Splice Tray R30

Supplied:

- Cover for FO Splice Tray R30

Material: ABS

Color: white

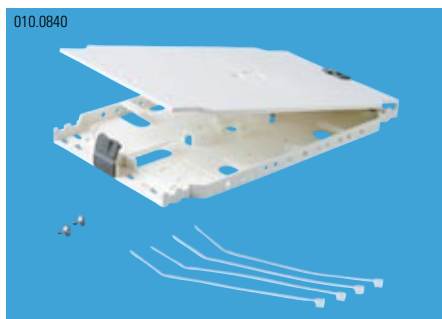
Dimensions: 92 x 2 x 155 mm (W x H x D)

1

R30278



To protect the spare fibers. Hinged fastening.



FO Splice Tray Basic Set R30

Supplied:

- 1 splice tray R30
- 1 splice tray R30 cover
- 2 film hinges for cover
- 4 cable ties
- 2 screws for splice holder

Material: ABS

Color: white

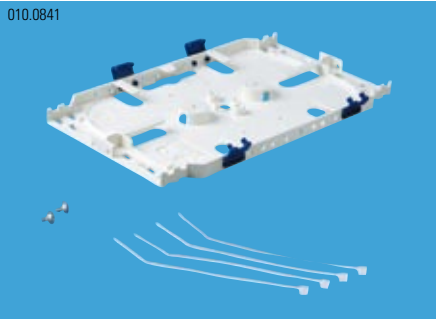
Dimensions: 92 x 10 x 155 mm (W x H x D)

1

R30393



To splice and store the first 12 FO terminations.



FO Splice Tray Additional Set R30

- Supplied:
- 1 splice tray R30
 - 4 film hinges, small, for stacking
 - 4 cable ties
 - 2 screws for splice holder

Material: ABS

Color: white

Dimensions: 92 x 10 x 155 mm (W x H x D)

1

R30394

i For the modular stacking of 12 more FO terminations per set.



FO Splice Tray Radius 30 mm for 19" 1U Splice Box

- Supplied:
- 2 splice trays R30
 - 1 splice tray R30 cover
 - 4 insert hinges, small, blue
 - 2 magazine hinges, gray
 - 2 pigtail strain relieves
 - 3 one-point fastening cable ties

Material: ABS

Color: white

Dimensions: 92 x 18 x 155 mm (W x H x D)

1

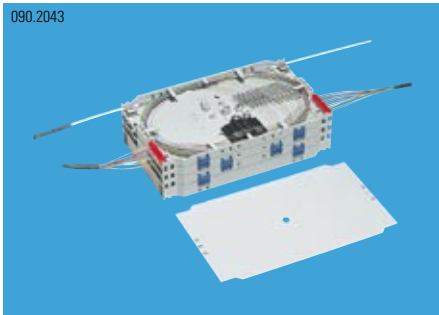
R306774

i To splice and store up to 24 FO terminations.

Matching Accessories

030.0082 	030.0058 	010.0842 	030.0107 	030.0096.1 	030.0305 	030.0099 	
030.0101 	030.0102 	030.0104.1 	010.2197 	030.0094 	010.2198 	030.0109 	
Page FO 76/100	Page FO 100/100	Page FO 101/101	Page FO 101/98	Page FO 98/99	Page FO 99/99	Page FO 99/102	

FO Splice Trays
FO Splice Tray Radius 40 mm



Features

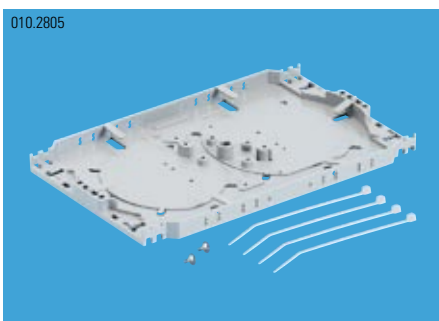
- Capacity of 24 splice connections
- Stackable trays, featuring hinges and fixing strap
- Min. 1.5 m spare length per fiber
- Hinge-fastened cover
- Storing option for unspliced fibers
- Removable fiber hold-down plates for large splice holders
- Bending radius 40 mm

Ordering Information

Description

PU

Part Number



FO Splice Tray R40

Supplied:

- 1 splice tray radius R40
- 4 cable ties
- 2 screws for splice holder

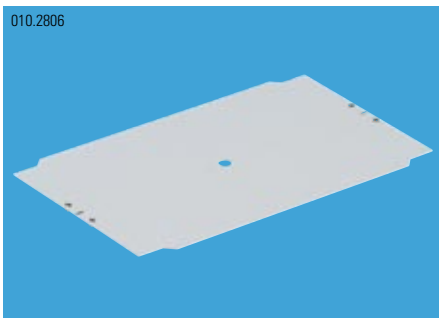
Material: PC and ABS-FR 2000

Color: NCS 2502-B, medium gray

Dimensions: 116 x 10.5 x 188 mm (W x H x D)

1

R308447



FO Cover for Splice Tray R40

Supplied:

- Cover for FO Splice Tray R40

Material: PC and ABS-FR 2000

Color: NCS 2502-B, medium gray

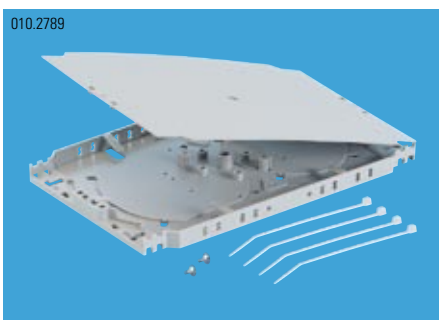
Dimensions: 116 x 2 x 188 mm (W x H x D)

1

R308446



To protect the spare fibers. Hinged fastening.



FO Splice Tray Basic Set R40

Supplied:

- 1 splice tray R40
- 1 splice tray cover
- 4 cable ties
- 2 screws for splice holder

Material: PC and ABS-FR 2000

Color: NCS 2502-B, medium gray

Dimensions: 116 x 12.5 x 188 mm (W x H x D)

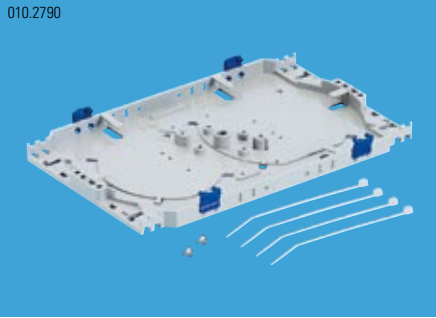
1

R308445



To splice and store the first 24 FO terminations.

010.2790



FO Splice Tray Additional Set R40

- Supplied:
- 1 splice tray R40
 - 4 film hinges, small, for stacking
 - 4 cable ties
 - 2 screws for splice holder

Material: PC and ABS-FR 2000

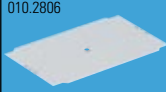

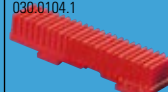





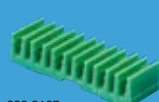
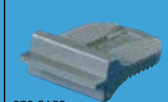



Color: NCS 2502-B, medium gray

Dimensions: 116 x 10.5 x 188 mm (W x H x D)

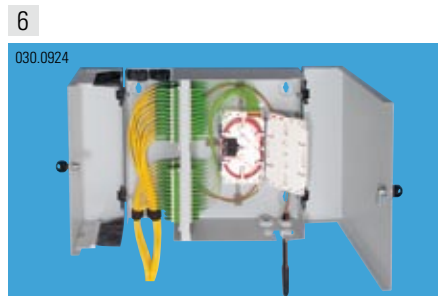
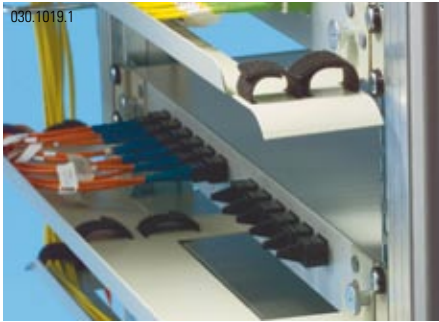
1

R308444

i For the modular stacking of additional 24 FO terminations per set.

Matching Accessories							
010.2806 	010.0842 	030.0104.1 	010.2197 	030.0094 	010.2198 	010.2791 	
030.0101 	030.0107 	030.0109 	030.0096.1 	030.0305 	030.0099 		
Page FO 78/100	Page FO 101/101	Page FO 102/102	Page FO 98/98	Page FO 99/99	Page FO 99/99	Page FO 98	

LAN Accessories



Products

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1 GOF 19" 1U and 2U Versions	FO 82
2 GOF 3U Versions	FO 85
3 FO 19" Racks (open versions)	FO 88
4 GOF Connectors	FO 91
5 GOF Outlets	FO 95

Products

Products	Page
6 GOF Small Distributors	FO 96
7 FO Splice Trays	FO 98

LAN Accessories
GOF 19" 1U and 2U Versions



Ordering Information

Description

PU

Part Number



FO Cable Guide

Supplied:
 – Cable guide
 – Velcro fastener 600 m

Material: 1.5 mm sheet steel

Color: powder-coated, medium gray, NCS 2502-B

75 mm

1

R30315



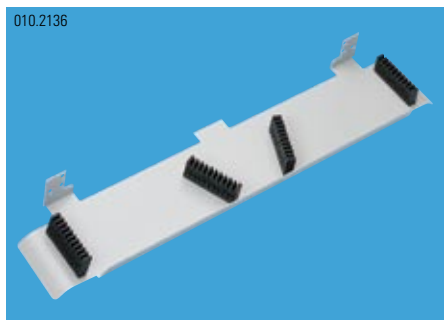
110 mm

1

R302003



For the horizontal patch cords routing. Fitted directly to the rack.
 Applicable when the 19" side mounting brackets are not in back-set position. Patching rings are an equivalent option.



FO FOM Cable Guide

Supplied:
 – Cable guide
 – 4 strain relief elastics

Material: 1.5 mm sheet steel

Color: powder-coated, medium gray, NCS 2502-B

110 mm

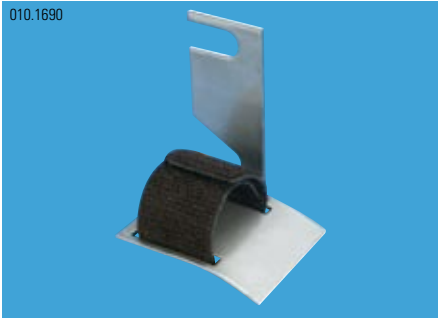
1

R304439



For the horizontal patch cord routing. Fitted directly to the rack.
 Applicable when the 19" side mounting brackets are not in back-set position. Patching rings are an equivalent option.

010.1690



FO Patching Ring, left and right

Supplied:

- Patching rings left and right
- Velcro fastener 200 mm for depth 35 mm (for closed racks with front doors)
- Velcro fastener 400 mm for depth 75 mm

Material: 1.5 mm sheet steel

Color: powder-coated, medium gray, NCS 2502-B

35 mm

1

R302004



75 mm

1

R302005



The patching ring protects the admissible bending radius of the fiber glass cable. Mounted at the front of the 19" profiles.

030.1468



FO FOM Patching Ring, left and right

Supplied:

- Patching rings left and right
- 2 strain relief elastics

Material: 1.5 mm sheet steel

Color: powder-coated, medium gray, NCS 2502-B

75 mm

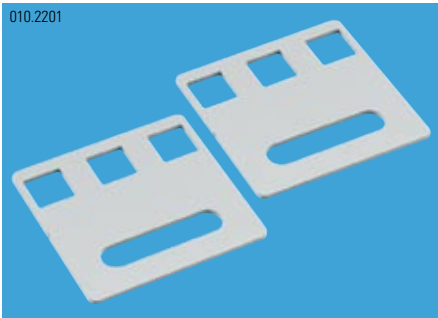
1

R304440



The patching ring protects the admissible bending radius of the fiber glass cable. Mounted at the front of the 19" profiles.

010.2201



FO 21" 1U Adapter Kit for 19" UniRack

Supplied:

- 2 adapters of 21 inches
- Fastening material

Material: 1.5 mm sheet steel

Color: powder-coated, medium gray, NCS 2502-B

1

R305148



With these adapters, 19" components can be fitted into metric profile rails (535 mm).

LAN Accessories
GOF 19" 1U and 2U Versions



FO Rear Cable Guide for 19" 1U/2U

- Supplied:
- 1 cable guide
 - Fastening material

Material: 1.5 mm aluminum

UniRack and Splice and Breakout Box 1 R302058 ●

i This rear cable guide is an additional support for FO cables or flex hoses (not for use with Fibereasy Rack).



FO Rear Cable Entry PG 16 for 19" 1U/2U

- Supplied:
- Cable entry
 - 1 PG screwing
 - Fastening material

Material: 1.5 mm aluminum

UniRack and Splice and Breakout Box 1 R302006 ●

i The rear cable entry is an additional relief on the FO cable (not for use with Fibereasy Rack).



FO Fibereasy Break-out Kit

- Supplied:
- 4 x 15 mm radius guards
 - Mounting material

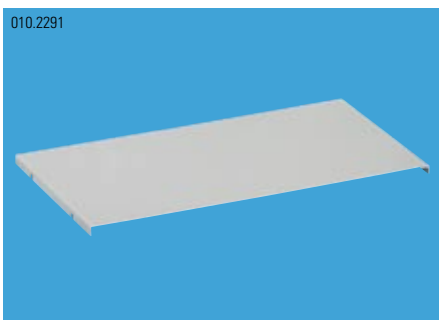
Material: ABS

Color: gray

Dimensions: 50 x 50 x 15 mm, radius 45°/90°

FO Fibereasy Breakout Kit 1 R303577 ●

i Additional patching guides for the slide-in unit to extend the excess length deposit. Max. five radius guards per 19" 1U FibereasyRack can be fitted.



FO Cover for 19" 1U Splice Box and Break-out Box

- Supplied:
- Cover for 19" 1U splice box

Color: NCS 2502-B, medium gray

1 R306775 ●

i Protection against external mechanical factors. Opened and closed with a screwdriver.

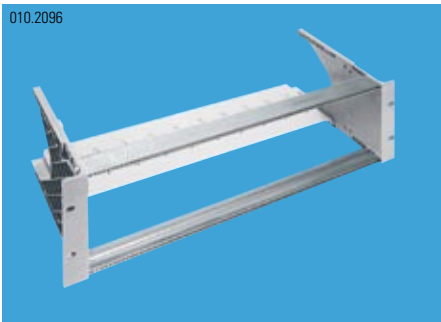


Ordering Information

Description

PU

Part Number



FO 19" 3U Global Rack for 120 fibers

- Supplied:
- Global patch panel
 - Insertion guide
 - Fastening kit

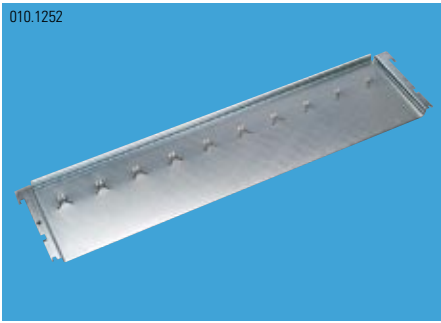
Color: NCS 2502-B/medium gray

Dimensions: 3U, 84HP

1

R31023

i Capacity of ten 19" 3U 8HP Fiberliner slide-in units (120 terminations).



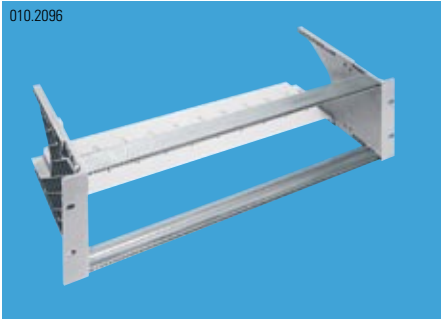
FO Support for 19" 3U Global Rack

- Supplied:
- Insertion guide

1

R31024

i Upper insertion guide for 2-point Fiberliner guiding.



FO 19" 3U Global Rack for 144 fibers

- Supplied:
- Global patch panel
 - 2 insertion guides
 - Fastening kit

Color: NCS 2502-B/medium gray

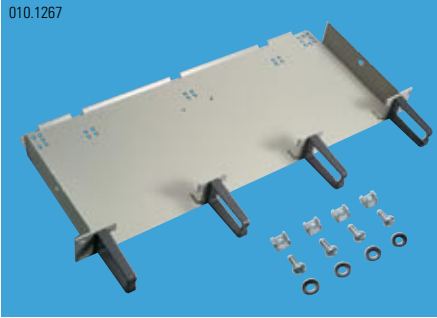
Dimensions: 3U, 84HP

1

R304572

i Capacity of ten 19" 3U 7HP connector modules (144 terminations).

LAN Accessories
GOF 3U Versions



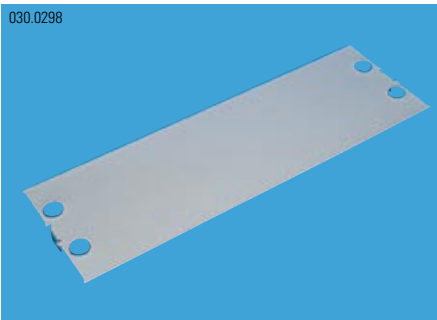
**FO 19" 1U Sub-Rack 36 Port for 19" 3U 8HP
 Fiberliner**

Supplied:
 – Rack
 – 4 jumpering bracket sets
 – Fastening kit

Material: sheet steel 1.5 mm
 Color: powder-coated, medium gray, NCS 2502-B
 Dimensions: 482.6 x 43.6 x 195.7 mm (W x H x D)

1 R30872

i Capacity of up to 3 Fiberliner or 3 splice trays R30 in combination with the 8HP adapter holder.



FO Cover for 19" 1U Sub-Rack R30872

Supplied:
 – Cover

Material: anodized aluminum

1 R30873

i Protection against external mechanical factors. Opened and closed without tools.



FO 3U Front Plate Part

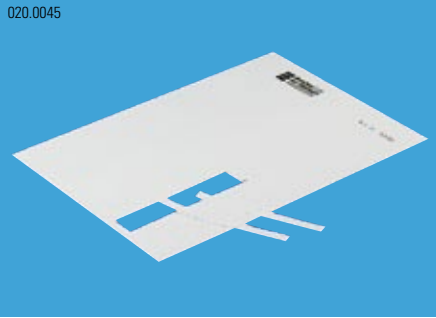
Supplied:
 – Dummy plate 3U/7HP or 3U/8HP

Material: sheet steel
 Color: powder-coated, medium gray, NCS 2502-B
 Dimensions: 3U/7HP and 3U/8HP

7HP 1 R304571
8HP 1 R30055-3-8

i Dummy plate to cover unused ports on the 1U and 3U sub-rack.

020.0045



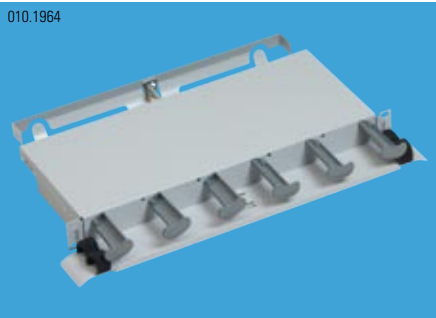
Labeling Sheet for Fiberliner and Global Module Holder

- Dimensions: A4
- Material: paper, white, perforated
- Supplied:
 - Fiberliner and Global module holder labeling sheet (50 strips without logo)

1 R30871

i For the labeling of front plates and 19" insertions.

010.1964



FO 19" 1U Contact Drawer

- Supplied:
- 19" 1U contact drawer
 - Fastening material
 - Excluding FO baffle guides

Material: sheet steel

Color: NCS 2502-B, medium gray

Dimensions: 482,6 x 43,6 (1U) x 230 mm (W x H x D)

1 R305374

i For storing spare loose tubes.

010.2311



FO Baffle Guide

- Supplied:
- Baffle guide right and left
 - Fastening material

Material: ABS/PC

Color: NCS 2502-B, medium gray

right for 19" 1U Contact Drawer
left for 19" 1U Contact Drawer

1 R30125
1 R30126

i For smooth patch cord guiding. For use with 19" 1U contact drawers (R305374).

LAN Accessories
FO 19" Racks (open versions)



Ordering Information

Description

PU

Part Number



19" Blind Plate,

- To cover unused spaces.
- Material: sheet steel
- Supplied:
- 19" blind plate

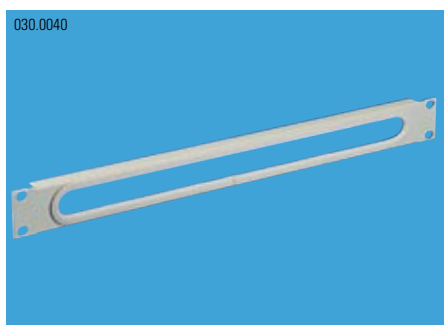
- 1U**
- 2U**
- 3U**
- 4U**

- 1
- 1
- 1
- 1

- R24031-01
- R24031-02
- R24031-03
- R24031-04



Does not include 19" mounting kit



19" 1U Cable Through Guide Panel

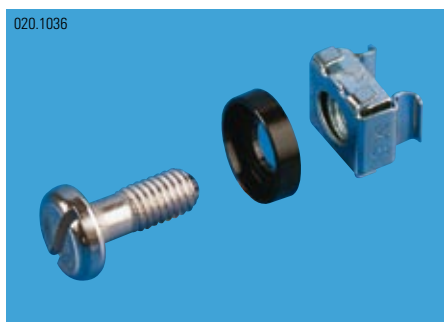
- Material: sheet steel
- Supplied:
- 19" 1U cable through guide panel

1

R25055



Does not include 19" mounting kit

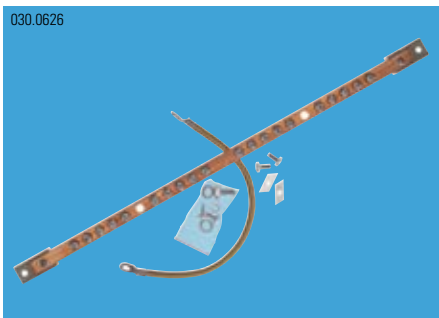


19" Mounting Kit

- For the mounting of all types of 19" components.
- Supplied:
- 4 M6 screws
- 4 M6 cage nuts
- 4 plastic collars

1

R305989



FO 19" Foccos Equipotential Bar

- Supplied:
- Equipotential bar with 2 insulators, 20 M5 grounding terminals and grounding connection
 - Grounding band 300 mm
 - Fastening material

Material: copper

Dimensions: 450 mm (L)

1 R30887



FO Jumpering Brackets

- Supplied:
- Jumpering brackets

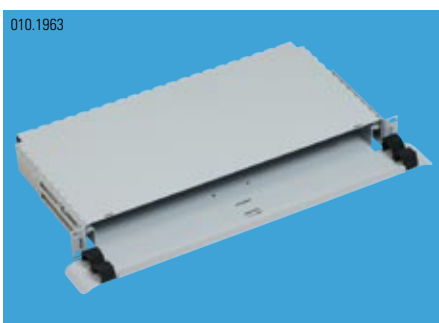
Material: steel

Color: R310862: galvanized, R310114: coated plastic

Dimensions: R310862: 60 x 205 mm, R310114: 60 x 120 mm

120 x 60 mm 1 R30114
60 x 205 mm 1 R310862

i For a flexible cable guiding on the rack. Not applicable with the FOM Cabinet.



FO 19" 1U Patch Cord Tray

- Supplied:
- 19" 1U patch cord tray without radius guard
 - Fastening material

Material: sheet steel

Color: NCS 2502-B, medium gray

Dimensions: 482.6 x 43.6 (1U) x 230 mm (W x H x D)

1 R305758

i Patch cord deposit on one height unit to store excess patch cord. One patch cord tray accommodates 50 m of excess length.

LAN Accessories
FO 19" Racks (open versions)



FO Radius Guard 2 x 15 mm for Patch Cord Tray

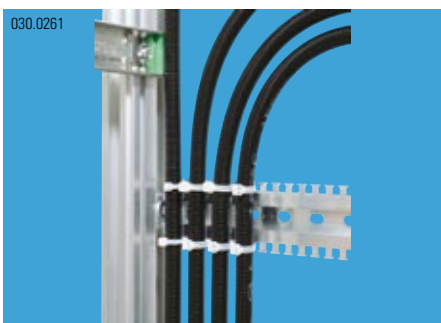
Supplied:
 – Two 15 mm radius guards
 – Fastening material

Material: ABS

Dimensions: 15 x 50 x 50 mm (W x H x D), radius 45/90°

1 R302007

i Additional patch cord guide for the patch cord tray. Note: one patch cord tray can be fitted with max. five times two 15mm radius guards.



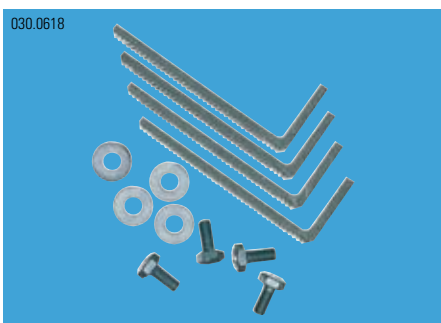
FO Cable Guide Kit

Supplied:
 – 3 m flex hose
 – Fastening material

NW 10 mm for 1U/2U versions
NW 17 mm for 2U versions

1 R30892
 1 R308694

i For the protected guiding of up to 4 (R30892) or 10 (R308694) loose tubes in 1U/2U versions.



FO 19" Foccos Wall-Mount Kit

Supplied:
 – 4 brackets
 – Fastening material

Material: steel

Color: NCS 2502-B, medium gray

1 R30879

i For fastening the racks to walls or back to back.



Ordering Information

Description

PU

Part Number

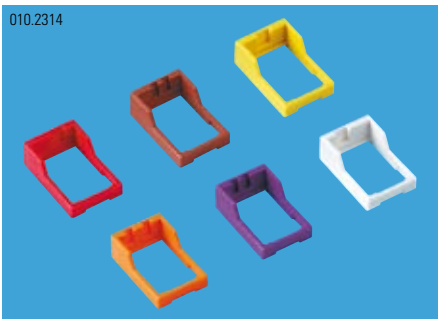


FO Frame for E-2000™ Adapter

Supplied:
– FO frame

violet	12	R308036
blue	12	R304410
brown	12	R304411
green	12	R304412
red	12	R304413
black	12	R304414
orange	12	R304415
white	12	R304416
yellow	12	R304833
turquoise	12	R308037

i Frame not mechanically coded.

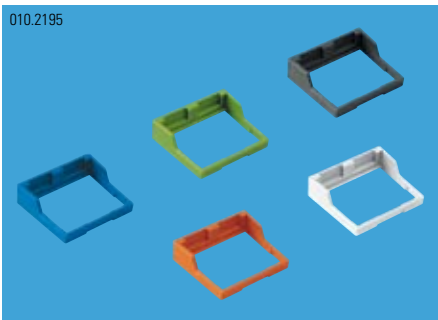


FO Frame for E-2000™ Adapter

Supplied:
– FO frame

red code 1	12	R306654
brown code 2	12	R306645
yellow code 3	12	R306656
orange code 4	12	R306655
violet code 5	12	R306653
white code 6	12	R306652

i Frame mechanically coded.



FO Frame for E-2000™ Compact Adapter

Supplied:
– FO frame

blue	12	R305519
green	12	R305520
black	12	R305524
orange	12	R305521
white	12	R305525
turquoise	12	R308986

i Frame not mechanically coded.

LAN Accessories
GOF Connectors

010.2078



FO Lever for E-2000™ Adapter

Supplied:
– FO lever

violet	12	R308035
blue	12	R304404
brown	12	R304405
green	12	R304406
red	12	R304408
black	12	R304409
orange	12	R304407
white	12	R304403
yellow	12	R304832
turquoise	12	R308034

 Lever not mechanically coded.

010.2315



FO Lever for E-2000™ Adapter

Supplied:
– FO lever

red code 1	12	R306648
brown code 2	12	R306651
yellow code 3	12	R306650
orange code 4	12	R306649
violet code 5	12	R306647
white code 6	12	R306646

 Lever mechanically coded.


010.2194



FO Lever for E-2000™ Compact Adapter

Supplied:
– FO lever

blue	12	R305513
green	12	R305514
orange	12	R305515
black	12	R305517
white	12	R305518
turquoise	12	R309004

 Lever not mechanically coded.

010.2193

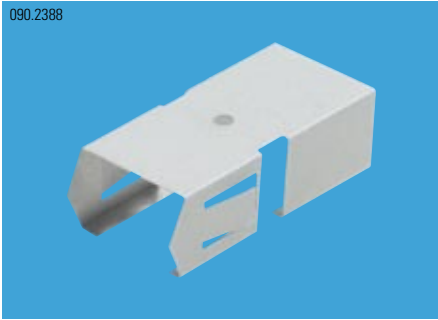


FO Clip for E-2000™ Compact Connector

Supplied:
– This clip makes duplex applications possible.

Color: black

12 R305542



090.2388

FO Quick-Mount Spring for E-2000™ Simplex Adapter

Supplied:
– Quick-mount spring E-2000™ Simplex

12 R305193



090.2392

FO Plug Guard for E-2000™ and E-2000™ Compact Connector

Supplied:
– FO Plug Guard for E-2000™ and E-2000™ Compact connectors

12 R314389



090.2394

FO Key for Plug Guard E-2000™ Compact Connector

Supplied:
– GOF key for Plug Guard E-2000™ Compact connectors

1 R314391

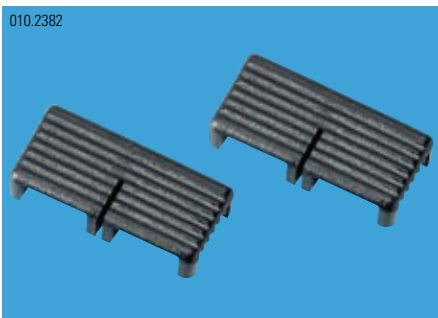


090.2393

FO Key for Plug Guard E-2000™ Connector

Supplied:
– FO key for Plug Guard E-2000™ connectors

1 R314390



010.2382

FO SC Duplex Clip for R&M SC Connector

Supplied:
– This clip makes SC Duplex applications possible.

Color: black

1 R306718

LAN Accessories
GOF Connectors



Key to Plug Guard and Fiber Guard

Supplied:
Key and keyring

1 R304828



Color Clip

– Color coding for SC-RJ patch cord, fiber guard, coding frame and patch guard.

Supplied:
– Color Clip

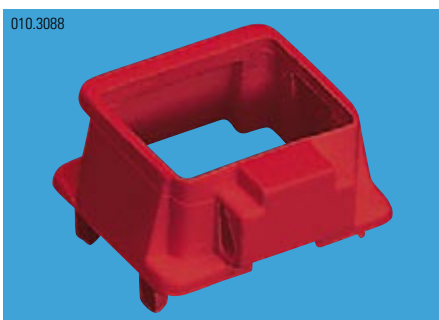
green	12	R310141
yellow	12	R310142
blue	12	R310143
red	12	R310144
anthracite	12	R310145
turquoise	12	R310146
violet	12	R310147
orange	12	R310148



FO Coding Frame for SC-RJ Adapter

Supplied:
– Color coding frame

12 R310216



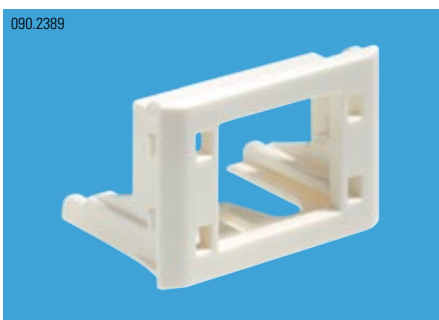
FO Fiber Guard for SC-RJ Adapter

– SC-RJ connection protection for outlets and patch panels.

– Fits smartholes.

Supplied:
– Fiber Guard
– 1 key per packing unit

12 R310218



Module Holder for RJ45/E-2000™ Compact/SC-RJ Adapter

Supplied:
– Module holder for E-2000™ Compact or SC-RJ adapter

white	10	R307832
black	10	R307833

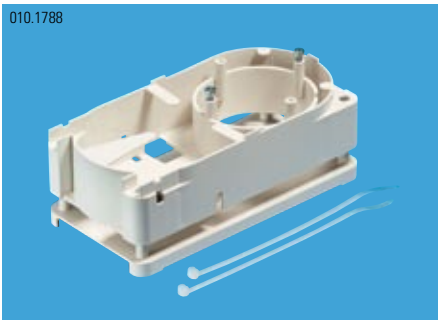


Ordering Information

Description

PU

Part Number



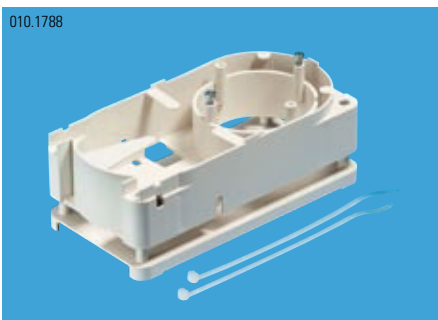
FO KR55 Cable Reservoir

Supplied:
– KR55 cable reservoir

1

R303478

i Mounting depth 55 mm, for FO duct-mounted outlets. Also suitable for the systems "System BR" by Tehalit and "te li ko" by Ackermann, installation ducts (WIK) and installation poles (ISS).



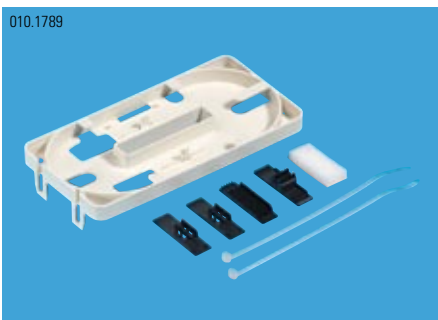
FO KR50 Cable Reservoir

Supplied:
– KR50 cable reservoir

1

R303488

i Mounting depth 50 mm, for FO duct-mounted outlet. Also suitable for the Tehalit "System FB".



FO Splice Storage for Cable Reservoir KR

Supplied:
– Splice storage

1

R303489

i Capacity of up to 4 fusion or mechanical splice connections incl. splice reserve with matching splice holders.



FO Labeling Sheet A4 for Outlets

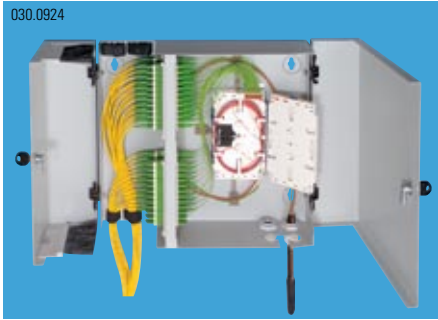
Supplied:
– Labeling Sheet A4 for Outlets

1

R303635

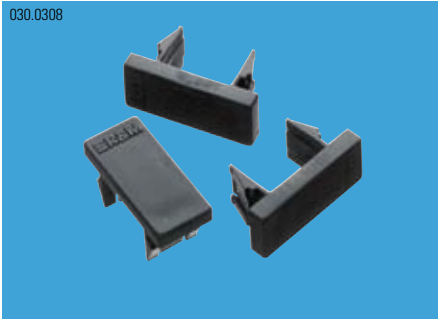
i For the labeling of FO outlets, without logo (unlettered).

LAN Accessories
GOF Small Distributors



Ordering Information	Description	PU	Part Number
<p>010.2948</p>	<p>FO 8HP Front Plate for 4 Module Holders Supplied: – Front plate suitable for module holders RJ45, SC-RJ, E-2000™ Compact (R307832 or R307833) Material: sheet steel Color: NCS 2502-B, medium gray</p>	1	R308888 ●
<p>010.2094.1</p>	<p>FO 8HP FiberCon Front Plate for Supplied: – Adapter holder 8HP – Fastening material Material: PC Color: NCS 1005-R80B, light gray</p>		
<p>030.0011</p>	<p>12 E-2000™/SC 6 E-2000™ Compact/SC-RJ 12 FC/ST 6 SC Duplex</p>	1 1 1 1	R300541 ● R300542 ● R300543 ● R302037 ●
<p>030.0011</p>	<p>FO 3U 8HP Front Plate Part for FiberCon 48 Supplied: – Dummy plate 3U/8HP Material: sheet steel Color: powder-coated, medium gray, NCS 2502-B Dimensions: 3U/8HP</p>	1	R304907 ●
	<p>Dummy plate to cover unused ports on the FiberCon 48.</p>		

030.0308



FO Dummy Plug

Supplied:

– Dummy plugs

Dimensions E-2000™/SC/LC: 13x9 mm (W x H)

Dimensions ST/FC: 8.0 to 9.5 mm

Dimensions E-2000™ Compact/SC-RJ:
18.5x16.0 mm (W x T)

Dimensions SC Duplex: 26.4x9.8 mm (W x T)

E-2000™/SC/LCduz
ST/FC
E-2000™ Compact/SC-RJ
SC Duplex

12

12

12

12

R30004-20

R30841

R30842

R30843



LAN Accessories
FO Splice Trays



Ordering Information	Description	PU	Part Number
<p>010.2197</p>	<p>GOF Splice Holder R30/R40 for Splice Protection Sandwich Type (ANT) Supplied: – Splice holder – M3 fastening screw plus plastic screw</p> <p>Material: macrolon</p> <p>Color: black</p> <p>Dimension: 40 x 5 x 35 mm (W x H x D)</p>	10	R30255
<p>030.0096.1</p>	<p>GOF Splice Holder R30/R40 for Splice Protection Heat Shrink Type Supplied: – Splice holder – M3 fastening screw plus plastic screw</p> <p>Material: POM</p> <p>Color: black</p> <p>Dimension: 27 x 5 x 37 mm (W x H x D)</p>	10	R30039-06
<p>010.2791</p>	<p>GOF Splice Holder R40 for Splice Protections sandwich and heat shrink type Supplied: – Splice holder – M3 fastening screw plus plastic screw</p> <p>Material: PC and ABS-FR 2000</p> <p>Color: NCS 2502-B, medium gray</p> <p>Dimension: 30 x 4.5 x 72 mm (W x H x D)</p>	1	R308448
<p>i Capacity of max. 12 sandwich splice protections or max. 12 heat shrink type. Suitable for splice trays radius 40 mm.</p>			

010.2196



GOF Splice Holder R30/R40 for Splice Protection 3M Fiberlok™

Supplied:
– Splice holder
– M3 fastening screw plus plastic screw

Material: macrolon

Color: black

Dimension: 44 x 5 x 37 mm (W x H x D)

1

R30042

i Capacity of max. 6 3M Fiberlok™ splice protections. Suitable for splice trays radius 30/40 mm.

030.0094



GOF Splice Protection Sandwich Type (ANT)

Supplied:
– Crimp splice protection for single fibers

Material: sheet plate parts, inside coated with permanently elastic material

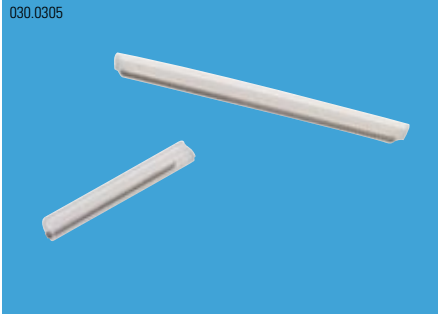
Dimensions: 1.2 x 3.2 x 30 mm (W x H x D)

15

R30086



030.0305



GOF Heat Shrink Splice Protection

Supplied:
– Shrink tube with metal insert

3x65mm

10

R30087



3x35mm

10

R30087-35



030.0099



GOF Splice Connector 3M Fiberlok™

Supplied:
– Splice connector

Material: plastic

Color: black

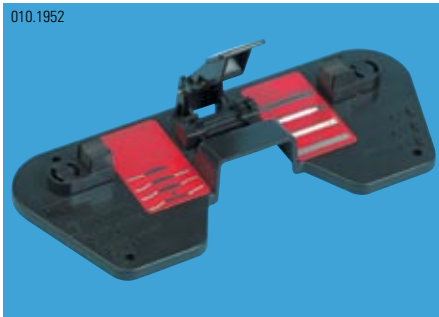
Dimensions: 3.8 x 8.4 x 28.1 mm (W x H x D)

6

R30089

i Mechanical GOF splice connector for 250 to 900 µm.

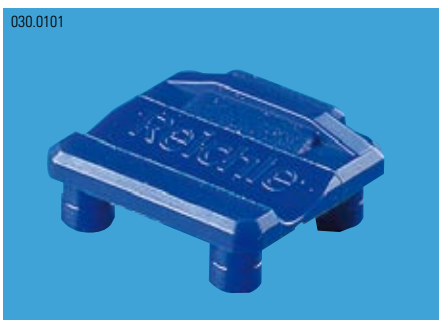
LAN Accessories
FO Splice Trays



FO Mounting Plate 3M Fiberlok™

Supplied:
 – Mounting tool for use with FO splice connectors 3M Fiberlok™

1 R304873



FO Film Hinge, small, for Splice Tray R30 and R40 mm, blue

Supplied:
 – Film hinge small, blue

Material: plastic

Color: blue

Dimension: 12 x 5.5 x 13 mm (W x H x D)

10 R30083-BL

i For fastening stacked splice trays. Suitable for splice trays radius 30/40 mm.



FO Insert Hinges for Splice Tray R30 mm

Supplied:
 – Insert hinges, large

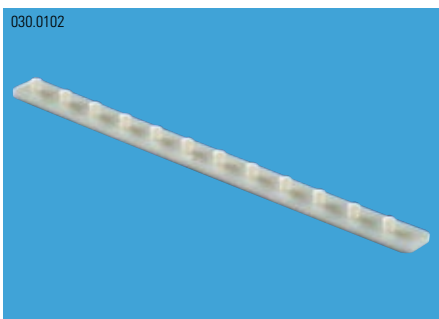
Material: plastic

Color: blue

Dimension: 15 x 5 x 18 mm (W x H x D)

red gray 10 R30005-GU
red 10 R30005-RT

i For fastening the splice tray covers. Suitable for splice trays radius 30 mm.



FO Module Fixing Strap for 12 Splice Trays R30 mm

Supplied:
 – Module fixing strap for 12 splice trays R30 mm

Material: plastic

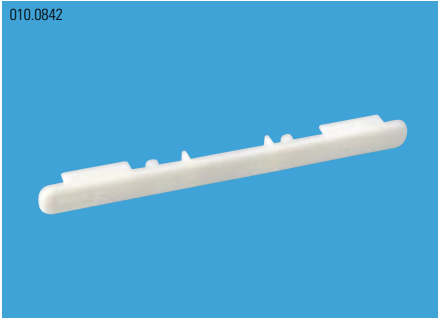
Color: white

Dimensions: 8 x 5 x 100 mm (W x H x D)

10 R30247

i To tie a maximum of 12 stacked splice trays together. For fast and easy access to the splice trays. For use with splice trays radius 30 mm.

010.0842



FO Labeling Strips for Splice Tray R30/R40

Supplied:

- Labeling strips for splice tray R30/R40

Material: plastic

Color: white

Dimensions: 75 x 7 x 5 mm (W x H x D)

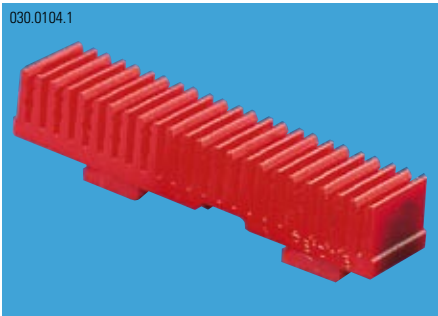
10

R30334



For labeling the individual splice trays. For use with the splice trays radius 30/40 mm.

030.0104.1



FO 12 Strain Relief Ø 0.9-1.1 mm for Splice Tray R30/R40 mm

Supplied:

- Strain relief

Material: macrolon

Color: red

Dimensions: 30 x 6 x 7.5 mm (W x H x D)

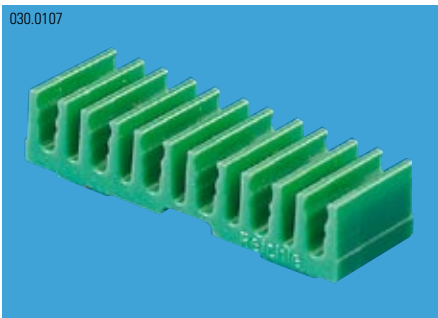
10

R30203



For the strain relief of 12 FO individual optical fibers of Ø 0.9 to 1.1 mm. To snap onto splice trays radius 30/40 mm.

030.0107



FO 6 Strain Relief Ø 1.9-2.1 mm for Splice Tray R30/R40 mm

Supplied:

- Strain relief

Material: macrolon

Color: red

Dimensions: 25 x 8 x 7.5 mm (W x H x D)

10

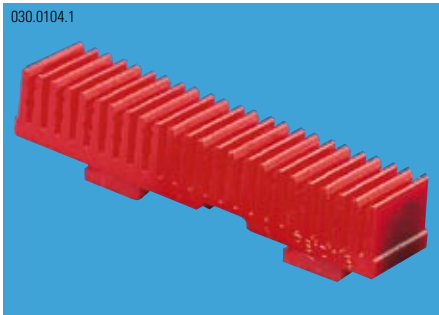
R30204



For the strain relief of 6 FO individual optical fibers of Ø 1.9 to 2.1 mm. To snap onto splice trays radius 30/40 mm.

LAN Accessories FO Splice Trays

030.0104.1



FO 24 Strain Relief Ø 0.9-1.1 mm for Splice Tray R40 mm

Supplied:
– Strain relief, tool-free

Material: PC and ABS-FR 2000

Color: red

Dimensions: 34 x 6 x 7.5 mm (W x H x D)

10

R308456



For the strain relief of 24 FO individual optical fibers of Ø 0.9 to 1.1 mm.
To snap onto splice tray radius 40 mm.

030.0109



FO Insert Tool

Supplied:
– Insert tool

Material: Novodur PM

Color: gray

Dimensions: 10 x 12 x 6 mm (W x H x D)

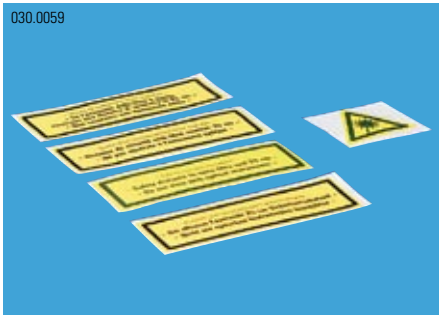
1

R30084



For inserting the fibers into the strain-relief bridge.

030.0059



FO Warning Sign Set DE/FR/IT/EN

Supplied:
– 1 laser signet
– 1 warning sign German
– 1 warning sign French
– 1 warning sign Italian
– 1 warning sign English

Material: plastic, adhesive

Color: yellow/black

Dimensions: 84 x 26 x 0.2 mm (W x H x D)

1

R30021



To stick to the FO pigtail covers.

030.0624



FO Plastic Screw for Splice Tray R30/R40

Supplied:
– Plastic tapping screw

1

R31020



To fasten the splice holders in the splice tray.



Products	Page
1 GOF 19" 1U and 2U Versions	104
2 GOF 19" 3U Versions	106
3 GOF Patch Cords	108

1heunirack- standard- os1- c- keramik- 24- apc8- lsh

Adapter / connector

Code	Description
lsh	E-2000™ (Simplex)

sc	SC (Simplex)
st	ST (Simplex)
fc	FC (Simplex)
lshrj	E-2000™ Compact (Duplex)
scrj	SC-RJ (Duplex)
scduz	SC duz (Duplex)
lcduz	LC duz (Duplex)

Polish

Code	Description
pc	PC (only Code c, d, m)

apc8	APC 8° (only Code b, c)
------	-------------------------

no	Breakout Version
----	------------------

Number of adapters

Code	Description
------	-------------

2	2
---	---

24	24
-----------	-----------

–	–
---	---

72	72
----	----

Adapter (sleeve) material

Code	Description
------	-------------

keramik	Zirconia ceramic (only Code b, c)
----------------	--

phbr	Phosphor Bronze (only Code d, m)
------	----------------------------------

Class

Code	Description
b	B = (SM), (only Code lsh, lshrj)
c	C = Standard (SM), (only Code lsh, sc, fc, lshrj, scduz, lcduz)
d	D = (SM), (st)
m	M = Standard (MM), (only Code lshrj, scrj, scduz, lcduz)

Fiber

Code	Description
om1	OM1 = 62.5µm (only Code m)
om2	OM2 = 50µm (only Code m)
om3	OM3 = 50µm (only Code m)
os1	OS1 = 9µm (only Code d, c, b)
no	Breakout version

Color Code

Code	Description
standard	DIN VDE 0888 = splice version
swisscom	Swisscom = splice version
keincode	no colour code = breakout version

19" 1U und 2U Versions

Code	Description
1heunirack	19" 1U UniRack = splice version
1heunirack45l	19" 1U UniRack 45° left = splice version
1heunirack45r	19" 1U UniRack 45° right = splice version
1heairrack	19" 1U AirRack = splice version
2heunirack	19" 2U UniRack = splice version
2heunirack45l	19" 2U UniRack 45° left = splice version
1hespleissbox	19" 1U Splice Box = splice version
1hefibereasyrack	19" 1U FibereasyRack = breakout version
1hebreakoutbox	19" 1U BreakoutBox = breakout version



Order example for GOF 19" 1U and 2U Versions

Order key: 1heunirack-standard-os1-c-keramik-24-apc8-lsh (example)
 Class: 12
 Desire date: 01.01.2006 (example)
 Quantity: 10 (example)
 Name/Address: John Miller, billing address, delivery address, (example)
 customer number

3he8temodulspl- standard- os1- c- keramik- 4- apc8- lsh

Adapter / connector

Code	Description
lsh	E-2000™ (Simplex)

sc	SC (Simplex)
st	ST (Simplex)
fc	FC (Simplex)
lshrj	E-2000™ Compact (Duplex)
scrj	SC-RJ (Duplex)
scduz	SC duz (Duplex)
lcduz	LC duz (Duplex)

Polish

Code	Description
pc	PC (only Code c, d, m)

apc8 APC 8° (only Code b and c)

no	Breakout version
----	------------------

Number of adapters

Code	Description
2	2
4	4
–	–
12	12

Adapter (sleeve) material

Code	Description
keramik	Zirconia ceramic (only Code b, c)
phbr	Phosphor Bronze (only Code d, m)

Class

Code	Description
b	B = (SM), (lsh, lshrj)
c	C = Standard (SM), (only Code lsh, sc, fc, lshrj, scduz, lcduz)
d	D = (SM), (st)
m	M = Standard (MM), (only Code lshrj, scrj, scduz, lcduz)

Fiber Code

Code	Description
om1	OM1 = 62.5µm (only Code m)
om2	OM2 = 50µm (only Code m)
om3	OM3 = 50µm (only Code m)
os1	OS1 = 9µm (only Code d, c, b)
no	Breakout version

Color Code

Code	Description
standard	DIN VDE 0888 = splice version
swisscom	Swisscom = splice version
keincode	no colour code = breakout version

3U Version, Four-Channel Module, Connector Module (FiberCurb)

Code	Description
3he8temodulspl	3U Fiberliner = splice version
3he8temodulvor	3U Fiberliner = breakout version
modulspl	3U Connector Module = splice version
1hemodulspl	1U Four-Channel Module = splice version
1hemodulvor	1U Four-Channel Module = breakout version
3hemodulspl	3U Four-Channel Module = splice version
3hemodulvor	3U Four-Channel Module = breakout version
3he7temodul	Connector Module (FiberCurb) = splice version



Order example for GOF 19" 3U Versions

Order key: 3he8temodulspl-standard-os1-c-keramik-4-apc8-lsh (example)
 Class: 16
 Desire date: 01.01.2006 (example)
 Quantity: 10 (example)
 Name/Address: John Miller, billing address, delivery address, (example)
 customer number

**FO Order Key
GOF Patch Cords**

3- 1- Side A Side B Side A Side B Side A Side B Side A Side B Side A Side B os1-gb
 Ish- Ish- c- c- apc8- apc8- ws- ws- no- no-

Fiber

Code	Description
om1	OM1 = 62.5µm (orange)
om2	OM2 = 50µm (orange)
om3	OM3 = 50µm (orange)
os1-gb	OS1 = 9µm (yellow)
os1-gr	OS1 = 9µm (green)

Metal protection cap Side A/B

Code	Description
no	Standard
sw	black (only Code Ish, Ishrj, b)
sb	silver (only Code Ish, Ishrj, b)

Coding Side A/B

Code	Description
no	Standard
bl	blue (only Code Ish, Ishrj, os1, c, d)
gr	green (only Code Ish, Ishrj, os1, b, c)
sw	black (only Code Ishrj, scrj, om1, m)
or	orange (only Code Ishrj, scrj, om2, m)
ws	white (only Code Ish, Ishrj, os1, b, c)
tr	turquoise (only Code Ishrj, scrj, om3, m)

Polish Side A/B

Code	Description
pc	PC (only Code c, d, m)
apc8	APC 8° (only Code b and c)

Class Side A/B

Code	Description
b	B = (SM), (only Code lsh, lshrj)
c	C = Standard (SM), (only Code lsh, sc, fc, lshrj, scduz, lcduz, 2xst)
d	D = (SM), (only Code os1, st, 2xst, d)
m	M = Standard (MM), (only Code lshrj, scrj, scduz, lcduz, 2xst)

Connector Side A/B

Code	Description
fc	FC (Simplex), (only Code c)
lcduz	LC duz (Duplex), (only Code c, m)
lsh	E-2000™ (Simplex), (only Code b, c)
lshrj	E-2000™ Compact (Duplex), (only Code b, c, m)
sc	SC (Simplex), (only Code c)
scduz	SC duz (Duplex), (only Code c, m)
scrj	SC-RJ (Duplex), (only Code m)
st	ST (Simplex), (only Code os1, d)
2xfc	2 x FC (Simplex), (only Code c)
2xst	2 x ST (Simplex), (only Code d, m)

Patch cord length

Code	Description
1	1
2	2
–	–
50	50

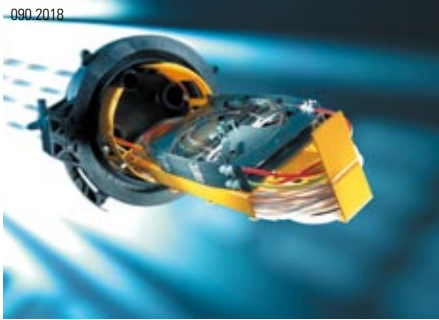
Outer sheath Ø (mm)

Code	Description
2.0x4.1-fig8	Duplex Cable „Figure 8“ 2.0x4.1 (only Code om1, 2, 3, os1-gb)
2.1	Simplex Cable 2.1, (only Code os1-gb, os1-gr)
2.7x5.4-fig8	Duplex Cable „Figure 8“ 2.7x5.4
3	Simplex Cable 3.0, (only Code os1-gb, os1-gr)
3.1x5.2-fig0	Duplex Cable „Figure 0“ 3.1x5.2
3.9x6.2-fig0	Duplex Cable „Figure 0“ 3.9x6.2



Order example for GOF Patch Cords

Order key: 3-1-lsh-lsh-c-c-apc8-apc8-ws-ws-no-no-os1-gb (example)
 Class: 13
 Desire date: 01.01.2006 (example)
 Quantity: 10 (example)
 Name/Address: John Miller, billing address, delivery address, (example)
 customer number

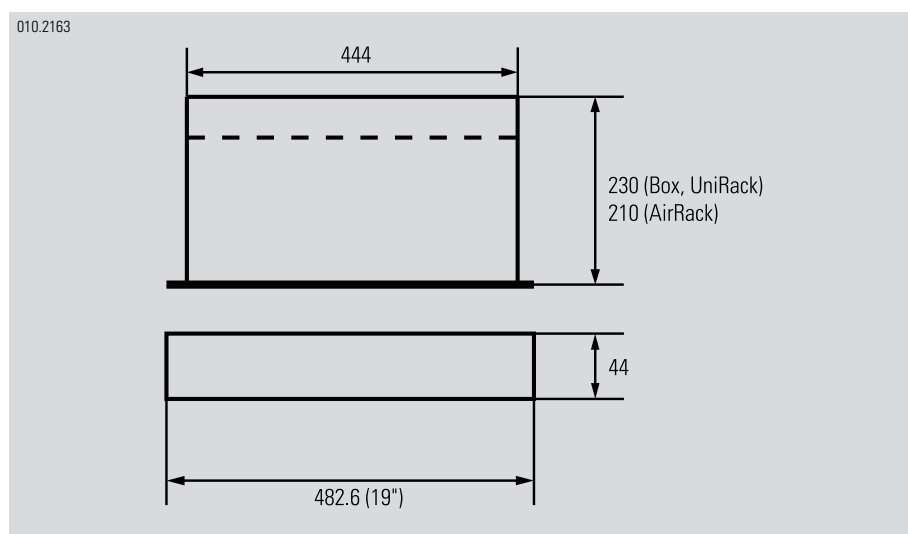


Products	Page	Products	Page
1 1U and 2U Versions	FO 112	6 Installation Cables	FO 121
2 3U Versions	FO 115		
3 Connectors	FO 116		
4 Fibers	FO 119		
5 Pigtailed and Patch Cords	FO 120		

LAN Specifications
1U and 2U Versions

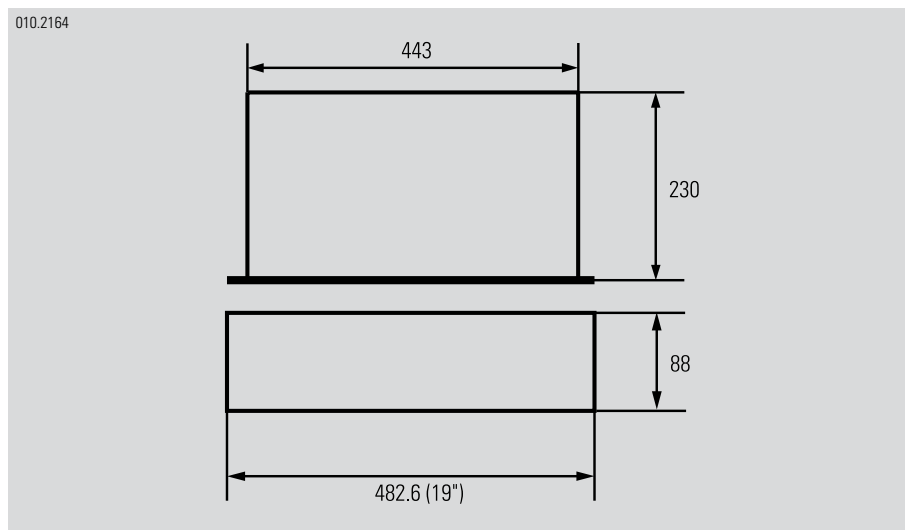
Product	Component	Material	Color
GOF 19" 1U UniRack	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	tray plate	sheet steel 1.25 mm	powder-coated gray, NCS 2502-B
	loose tube tray	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
GOF 19" 1U AirRack	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	tray plate	sheet steel 1.25 mm	powder-coated gray, NCS 2502-B
	loose tube tray	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
GOF 19" 1U FibereasyRack	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	loose tube tray	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
GOF 19" 1U Splice Box	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
GOF 19" 1U Breakout Box	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B

GOF 19" 1U versions



Product	Component	Material	Color
GOF 19" 2U UniRack	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	tray plate	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	loose tube tray	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B

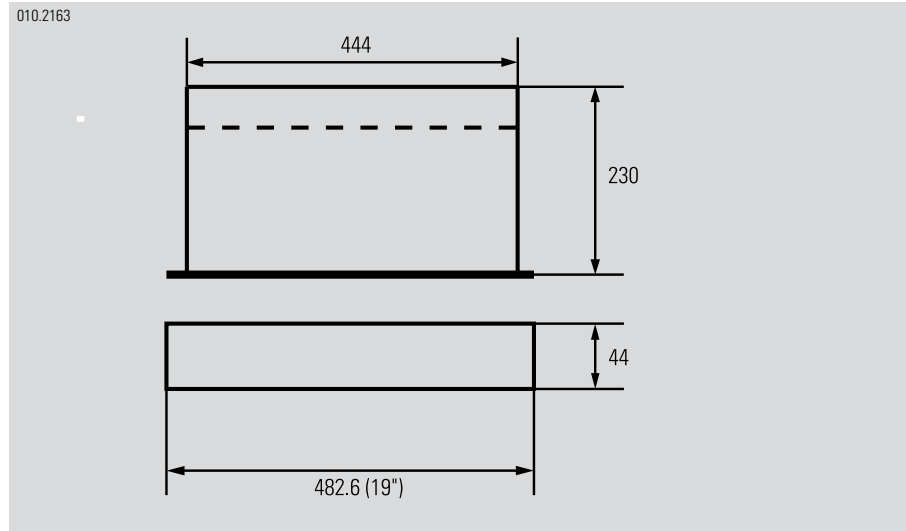
GOF 19" 2U versions



Product	Component	Material	Color
GOF 19" 1U holder for 3 test coupler inserts	insert	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	loose tube tray	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B
	front panel	sheet steel 1.5 mm	powder-coated gray, NCS 2502-B

LAN Specifications
1U and 2U Versions

GOF 19" 1U holder for 3 test coupler inserts



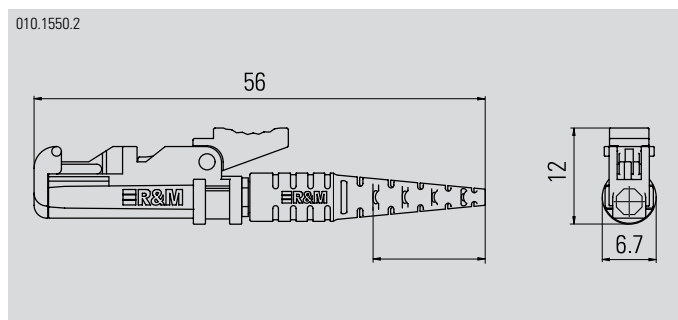
Product	Component	Material	Color
GOF 3U Four-Channel Module	slide-in unit	PC, Lexan, 500R UL94, VO	white, RAL 9010

Product	Component	Material	Color
GOF 3U 8HP Fiberliner	front plate	PC	light gray, NCS 1005-R80B
	slide-in unit	PC and ABS	black
GOF 3U 7HP Connector Module	base plate	sheet steel 1.5 mm	electrolytically zinc-coated, blue passivated
	front plate	sheet steel 1.5 mm	light gray, NCS 1005-R80B
GOF 3U Four-Channel Module	slide-in unit	PC, Lexan 500R, UL94	white, RAL 9010

LAN Specifications Connectors

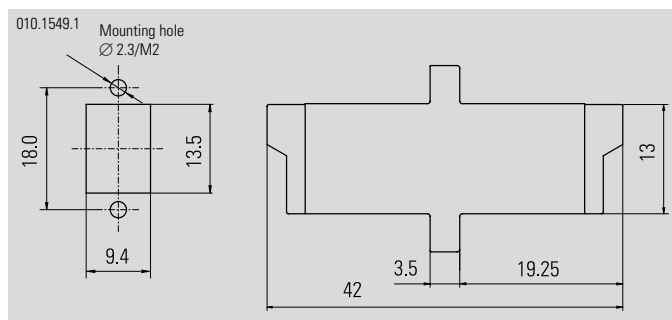
Connector type		E-2000™	SC	FC	ST	LC	Test conditions
Application	WAN	yes	yes	yes	no	yes	
	LAN	yes	yes	no	yes	yes	
	metrology	yes	yes	yes	no	yes	
	industry	yes	yes	yes	yes	yes	
Material	zirconia sleeve	yes	yes	yes	no	yes	
	PhBr sleeve	yes	yes	yes	yes	yes	
	housing	PBT/UL94 VO	PBT	metal	metal	PBT/UL94 VO	
	protective cap	PBT/UL94 VO	PBT			PBT/UL94 VO	
Insertion loss (IL), (dB)	zirconia sleeve	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-3-4
	PhBr sleeve	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-3-4
Mechanical properties	zirconia sleeve	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-2-2
Mating cycles	PhBr sleeve	fulfilled	fulfilled		fulfilled	fulfilled	IEC 61300-2-2
Pulling force		fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-2-6
Climatic classes	zirconia sleeve	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-2-22
Temperature change	PhBr sleeve	fulfilled	fulfilled	fulfilled	fulfilled	fulfilled	IEC 61300-2-22

Dimensional diagram GOF connector, E-2000™

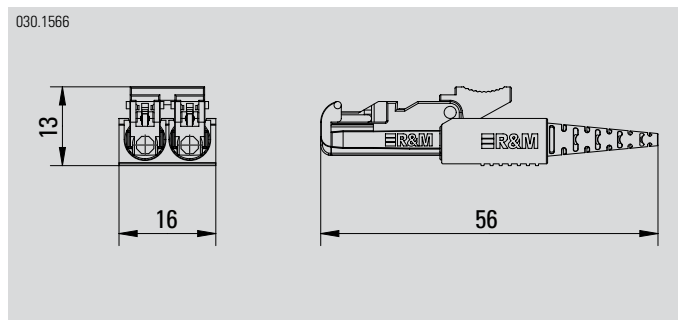


Dimensional diagram and mounting dimensions GOF adapter, E-2000™

– Wall thickness 1.5 mm for quick-mount spring R305193

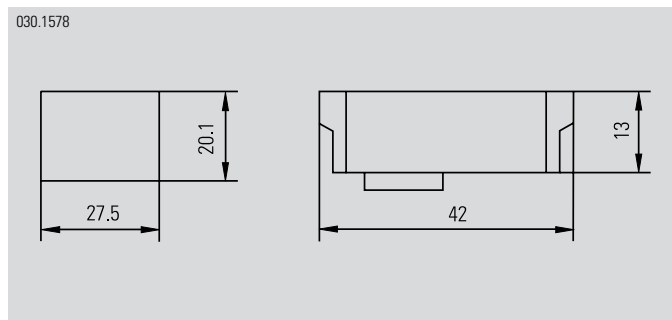


Dimensional diagram GOF connector, E-2000™ Compact Snap-In

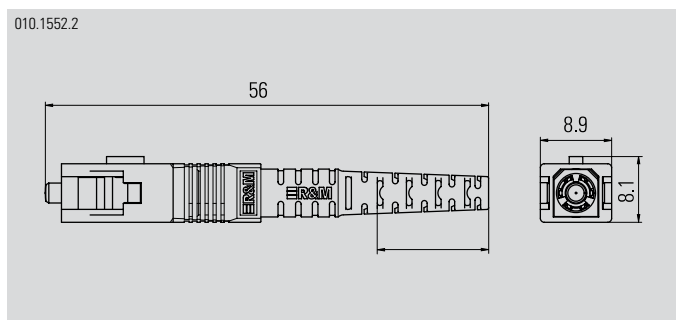


Dimensional diagram and mounting dimensions GOF adapter, E-2000™ Compact

– Wall thickness 1.5 mm for module holder R30783/33
– Wall thickness 1.5 mm or 2.0 mm for Snap-In frame

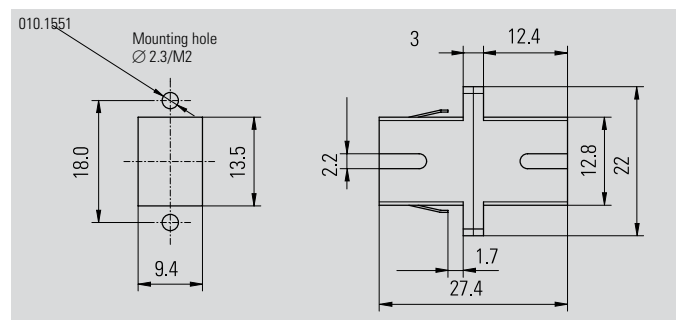


Dimensional diagram GOF connector, SC



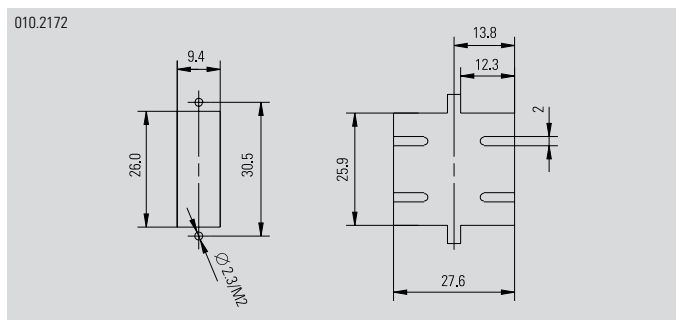
Dimensional diagram and mounting dimensions GOF adapter, SC

– Wall thickness 1.5 mm for quick-mount spring



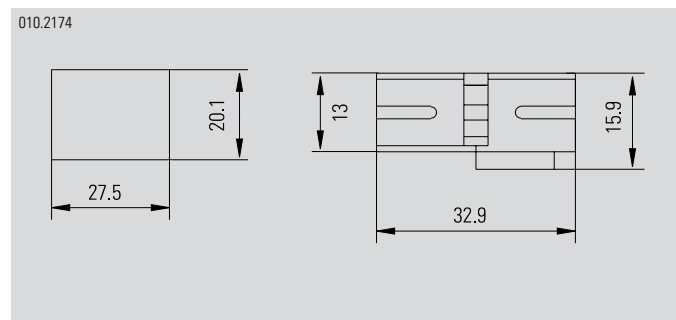
Dimensional diagram and mounting dimensions GOF adapter, SC Duplex

– Wall thickness 1.5 mm for quick-mount spring

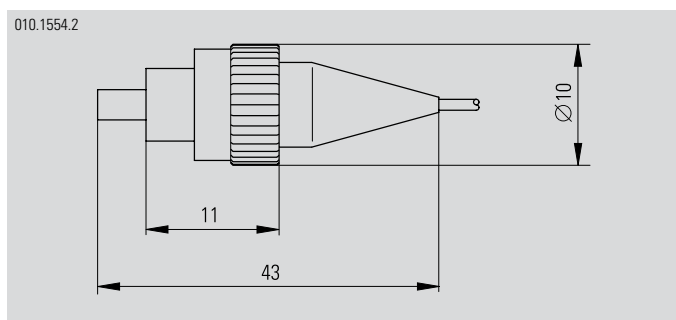


Dimensional diagram and mounting dimensions GOF adapter, SC-RJ

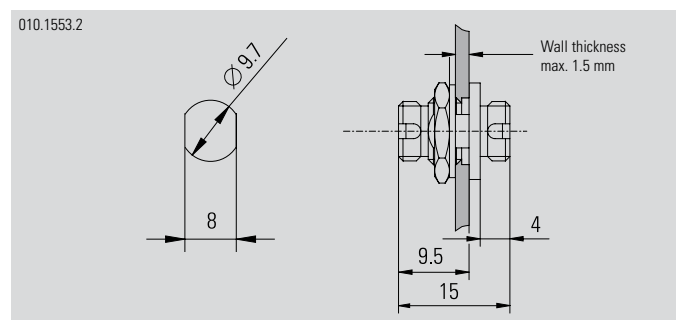
– Wall thickness 1.5 mm for module holder R30783/33
– Wall thickness 1.5 mm or 2.0 mm for Snap-In frame



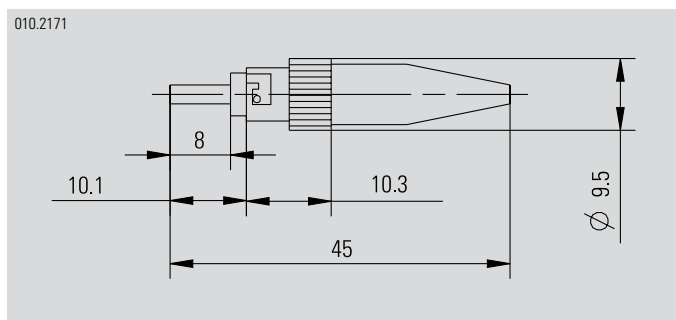
Dimensional diagram GOF connector, FC



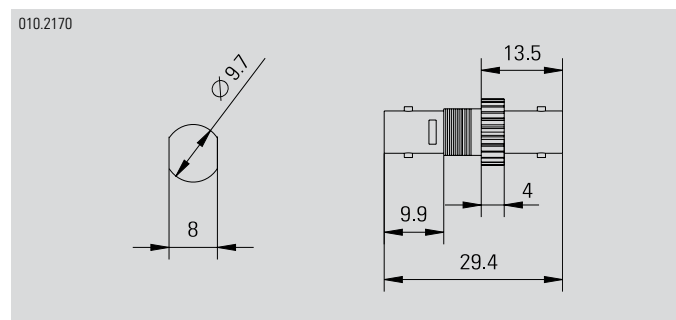
Dimensional diagram and mounting dimensions GOF adapter, FC



Dimensional diagram GOF connector, ST

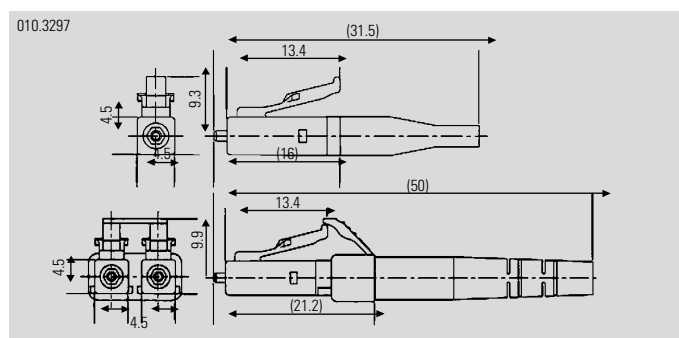


Dimensional diagram and mounting dimensions GOF adapter, ST



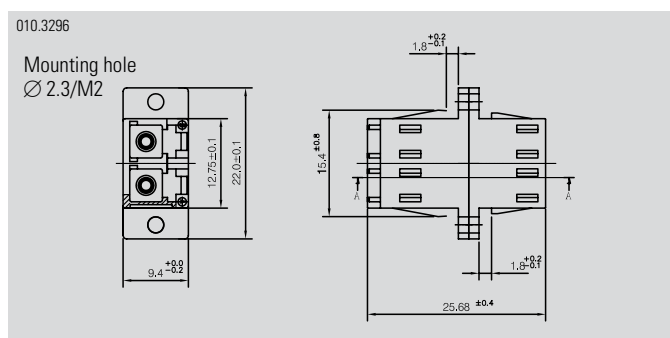
LAN Specifications Connectors

Dimensional diagram GOF connector, LC



Dimensional diagram and mounting dimensions GOF adapter, LC

– Wall thickness 1.5 mm for quick-mount clip



GOF Specifications R&M GOF Color Code

DIN VDE 0888	Color	Code
	red	1
	green	2
	blue	3
	yellow	4
	white	5
	gray	6
	brown	7
	violet	8
	turquoise	9
	black	10
	orange	11
	pink	12

Color Code R&M

bl	blue
sw	black
gr	green
tr	turquoise
or	orange
ws	white
vi	violet
br	brown
gb	yellow
gu	grey
rt	red
an	anthracite

Technical data of MM fibers

According to standard	ISO/IEC 11801:2002	OM1	OM2	OM3
Fibers	(μm)	G62.5/125	G50/125	G50/125
Core \emptyset	(μm)	62.5 ± 3	50 ± 3	50 ± 3
Cladding \emptyset	(μm)	125 ± 2	125 ± 2	125 ± 2
Primary coating colored \emptyset	(μm)	250 ± 15	250 ± 15	250 ± 15
Group index of refraction	(850 μm)	1.496	1.482	1.482
	(1300 μm)	1.491	1.477	1.477
Attenuation (cable)	(dB/km) (850 μm)	≤ 3.5	≤ 3.5	≤ 3.5
	(dB/km) (1300 μm)	≤ 1.5	≤ 1.5	≤ 1.5
Bandwidth x length product	(MHz x km) (850 μm)	≥ 200	≥ 500	$\geq 1500/2000^*$
	(MHz x km) (1300 μm)	≥ 500	≥ 500	≥ 500

* Restricted launch condition

Technical data of SM fibers

According to standard	ISO/IEC 11801:2002 ITU-T G.652.D 1)	OS1
Fibers	(μm)	E9/125
Core (MDF) / cladding concentricity error	(μm)	≤ 0.6
Cladding \emptyset	(μm)	125 ± 1.0
Primary coating colored \emptyset	(μm)	250 ± 15
Group index of refraction	(1310 μm)	1.467
	(1550 μm)	1.467
Attenuation (cable)	(dB/km) (1310 μm)	≤ 0.40
	(dB/km) (1550 μm)	≤ 0.30
Chromatic dispersion	(ps/(km x nm)) (1285-1350 nm)	$\leq 3 $
	(ps/(km x nm)) (1550 nm)	≤ 18
Polarization mode dispersion (PMD) coefficient, cabled	ps/ $\sqrt{\text{km}}$	≤ 0.2

1) IEC 60793-2-50: 2004, B 1.3

LAN Specifications
Pigtails and Patch Cords

GOF Specifications SM Pigtail and Patch Cords

Patch cord (without connector)

Feature		Duplex "Figure 0"		
Outer sheath Ø (mm)		3.1 x 5.2	3.5 x 6.2	
Single fiber Ø (mm)		2.0±0.1	2.7±0.1	
Optical fiber Ø (mm)		0.9	0.9	of 1 fiber
Weight approx. (kg/km)		15.2	27	
Maximum tensile force (N)	on installation	2 x 100	2 x 200	IEC60794-1-2 E1
	in operation	2 x 100	2 x 100	IEC60794-1-2 E1
Minimum bending radius (mm)	on installation	50	50	IEC60794-1-2 E11
	in operation	25	30	IEC60794-1-2 E11
Compressive strength (N/cm)	short term	500	1000	IEC60794-1-2 E3
	in storage	100	100	IEC60794-1-2 E3
Impact resistance	Wp = 0.74 Nm/r = 25 mm	20	50	IEC 60794-1-2 E4
Temperature range (°C), LSZH	on installation	minus 10 up to plus 60	minus 10 up to plus 60	IEC 61300-2-22
	in operation	minus 20 up to plus 70	minus 20 up to plus 70	IEC 61300-2-22
	in storage	minus 25 up to plus 60	minus 25 up to plus 60	IEC 61300-2-22

GOF Specifications Breakout Cable I-V(ZN)HH

Fiber count		2 and 4	6	8	12	16	24	
Cable Ø (mm)		7.5	8.5	10	12.5	13	14.5	
Nominal weight (kg/km)		60	90	100	145	150	170	
Maximum tensile strength (N)	during installation	900	1200	1600	2300	2000	3000	IEC 60794-1-2 E1
	in operation	450	600	800	1150	1000	1500	IEC 60794-1-2 E1
Minimum bending radius (mm)	during installation	75	100	100	150	140	175	IEC 60794-1-2 E11
	in operation	130	150	150	250	240	280	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	1500						IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70						IEC 60794-1-2 F1
	during installation	minus 20 up to plus 70						IEC 60794-1-2 F1
	in operation	minus 20 up to plus 70						IEC 60794-1-2 F1

GOF Specifications Mini-Breakout Cable I-V(ZN)H

Fiber count		2	4	6	8	12	16	24	
Cable Ø (mm)		6	6	6	6	6.5	7.5	8.5	
Nominal weight (kg/km)		30	35	40	50	55	60	90	
Maximum tensile strength (N)	during installation	1500	1500	1500	1500	1500	2100	2400	IEC 60794-1-2 E1
	in operation	500	500	500	500	500	700	800	IEC 60794-1-2 E1
Minimum bending radius (mm)	during installation	50	50	50	75	75	100	115	IEC 60794-1-2 E11
	in operation	100	100	100	130	130	200	230	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	3000							IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70						IEC 60794-1-2 F1	
	during installation	minus 20 up to plus 70						IEC 60794-1-2 F1	
	in operation	minus 20 up to plus 70						IEC 60794-1-2 F1	

GOF Specifications Central Loose Tube Cables I/A-D(ZN=B)H

Fiber count		2 to 16	18 to 24	
Cable Ø (mm)		6.5	7	
Nominal weight (kg/km)		33	35	
Maximum tensile strength (N)	during installation	1000	1000	IEC 60794-1-2 E1
	in operation	500	500	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	100	100	IEC 60794-1-2 E11
	unloaded	60	60	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	2000	2000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70		IEC 60794-1-2 F1
	during installation	minus 30 up to plus 40		IEC 60794-1-2 F1
	in operation	minus 30 up to plus 70		IEC 60794-1-2 F1

GOF Specifications Stranded Loose Tube Cables I/A-DQ(ZN=B)H

Fiber count		12 to 72	84 to 96	108 to 120	132 to 216	
Cable Ø (mm)		11 ± 0.5	13 ± 0.5	14 ± 0.5	15.5 ± 0.5	
Nominal weight (kg/km)		130	165	200	240	
Maximum tensile strength (N)	during installation	> 4800	> 4800	> 4800	> 4800	IEC 60794-1-2 E1
	in operation	> 3400	> 3400	> 3400	> 3400	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	150	180	200	220	IEC 60794-1-2 E11
	unloaded	150	180	200	220	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	3000	3000	3000	3000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70				IEC 60794-1-2 F1
	during installation	minus 40 up to plus 70				IEC 60794-1-2 F1
	in operation	minus 40 up to plus 60				IEC 60794-1-2 F1

GOF Specifications Central Loose Tube Cables with Rodent Protection A-D(ZN)B2Y

Fiber count		2 to 16	18 to 24	
Cable Ø (mm)		6.5	7	
Nominal weight (kg/km)		40	45	
Maximum tensile strength (N)	during installation	1500	1500	IEC 60794-1-2 E1
	in operation	700	700	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	100	100	IEC 60794-1-2 E11
	unloaded	60	60	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	2000	2000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 60		IEC 60794-1-2 F1
	during installation	minus 15 up to plus 40		IEC 60794-1-2 F1
	in operation	minus 30 up to plus 60		IEC 60794-1-2 F1

GOF Specifications Stranded Loose Tube Cables with Rodent Protection A-DQ(ZN)B2Y

Fiber count		12 to 72	84 to 96	108 to 120	132 to 216	
Cable Ø (mm)		11 ± 0.5	13 ± 0.5	14 ± 0.5	15.5 ± 0.5	
Nominal weight (kg/km)		120	155	185	220	
Maximum tensile strength (N)	during installation	> 4800	> 4800	> 4800	> 4800	IEC 60794-1-2 E1
	in operation	> 3400	> 3400	> 3400	> 3400	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	150	180	200	220	IEC 60794-1-2 E11
	unloaded	150	180	200	220	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	3000	3000	3000	3000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 60				IEC 60794-1-2 F1
	during installation	minus 40 up to plus 60				IEC 60794-1-2 F1
	in operation	minus 40 up to plus 60				IEC 60794-1-2 F1

GOF Specifications Steel-Armored Central Loose Tube Cables A-D(ZN)W2Y

Fiber count		2 to 16	18 to 24	
Cable Ø (mm)		8.5	9.5	
Nominal weight (kg/km)		60	70	
Maximum tensile strength (N)	during installation	1000	1000	IEC 60794-1-2 E1
	in operation	500	500	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	110	110	IEC 60794-1-2 E11
	unloaded	55	55	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	2000	2000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70		IEC 60794-1-2 F1
	during installation	minus 40 up to plus 70		IEC 60794-1-2 F1
	in operation	minus 40 up to plus 70		IEC 60794-1-2 F1

GOF Specifications Steel-Armored Stranded Loose Tube Cables A-DF(ZN)2YW2Y

Fiber count		8 to 72	84 to 96	
Cable Ø (mm)		14.5	16	
Nominal weight (kg/km)		215	255	
Maximum tensile strength (N)	during installation	1800	1800	IEC 60794-1-2 E1
	in operation	1200	1200	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	290	320	IEC 60794-1-2 E11
	unloaded	290	320	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	3000	3000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 60 up to plus 60		IEC 60794-1-2 F1
	during installation	minus 30 up to plus 60		IEC 60794-1-2 F1
	in operation	minus 60 up to plus 70		IEC 60794-1-2 F1

LAN Specifications
Installation Cables

GOF Specifications Stranded Loose Tube Cables Aerial ADSS A-DF(ZN)2YQ(ZN)2Y

Fiber count		4 to 72	4 to 96	
Cable Ø (mm)		16.5	18.5	
Nominal weight (kg/km)		220	255	
Maximum tensile strength (N)	during installation	21000	21000	IEC 60794-1-2 E1
	in operation	14500	14500	IEC 60794-1-2 E1
Minimum bending radius (mm)	loaded	330	370	IEC 60794-1-2 E11
	unloaded	330	370	IEC 60794-1-2 E11
Compressive strength (N/10cm)	permanent	3000	3000	IEC 60794-1-2 E3
Temperature range (°C)	in storage	minus 40 up to plus 70		IEC 60794-1-2 F1
	during installation	minus 40 up to plus 70		IEC 60794-1-2 F1
	in operation	minus 40 up to plus 70		IEC 60794-1-2 F1

010.2870



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Ordering Information

Description

PU

Part Number

010.2815



Main Catalog R&Mfreenet Fiber Optics Solutions

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- Main Catalog R&Mfreenet Fiber Optics Solutions english

R305470

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Main Catalog R&Mfreenet, the LAN and SOHO Solution

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R306651	FO Lever for E-2000™ Adapter brown code 2	FO 92	R306954	GOF 3U 8HP Fiberliner with, splice version, 6xE-2000™ Compact, PC, M, OM1 (62.5µm)	FO 23
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R306652	FO Frame for E-2000™ Adapter white code 6	FO 91	R306956	GOF 3U 8HP Fiberliner with, splice version, 6xSC-RJ, PC, M, OM1 (62.5µm)	FO 23
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R306653	FO Frame for E-2000™ Adapter violet code 5	FO 91	R306959	GOF 3U 8HP Fiberliner with, breakout version, 6xE-2000™ Compact, PC, M, OM2 (50µm)	FO 25
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R308260	POF Ferrule Assembly Kit	CU 262/273	R308500	GOF 19" 1U Fibereasy Rack with, breakout version, 12xSC-RJ, PC, M	FO 16
R308261	Module Holder Tool	CU 41/274	R308501	GOF 19" 1U Fibereasy Rack with, breakout version, 12xSC Duplex, PC, M	FO 16
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R308318	GOF Mini Breakout Cable, 12 fibers, OM3 (50µm)	FO 55	R308511	GOF 19" 1U UniRack with, splice version, 12xLC Duplex, APC 8°, C, OS1 (9µm)	FO 10
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R308362	POF Polishing Sheet	CU 263/273	R308513	GOF 19" 1U UniRack with, splice version, 12xLC Duplex, PC, M, OM1 (62.5µm)	FO 12
R308366	POF Toolbox, complete	CU 262/272	R308514	GOF 19" 1U UniRack with, splice version, 24xLC Duplex, PC, M, OM1 (62.5µm)	FO 12
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R310830	GOF 19" 1U UniRack with, splice version, 12xE-2000™, APC 8°, C, OS1 (9µm)	FO 10	R311570	FM45 Color Coding Clip, grey	CU 56
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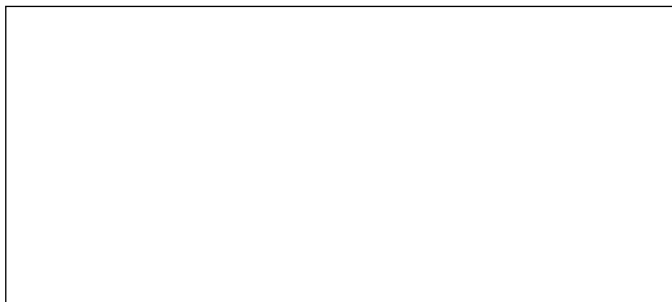
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