Product Catalog Asia-Pacific
2017

R&M

Get More with R&M

About R&M
R&M (Reichle & De-Massari) is a leading global producer of future-proof products and systems for communication and data networks.

Worldwide, the company makes a crucial contribution to operational security in speech, data, and image transmission with copper and fiber-optic systems. As a system provider, R&M has set itself the goal of developing optimal functionality and, above all, fulfilling the highest quality criteria.

In addition, R&M offers maximum installation and maintenance convenience. R&M solutions display their superiority through maximum availability with economical network operation. With high product quality and forward-looking design, R&M ensures that the networks will be capable in the future and that investments are secure in the long-term. R&M cabling solutions are used in office buildings, at network operators, in homes and in industry.

"We provide connectivity that matters."

R&M Cube
With the R&M Cube, our new company facility at Wetzikon, Switzerland, we are committed to sustainability, high quality and an uncompromising customer-based approach.

Please scan the QR Code for more information on The R&M Production Network

R&M

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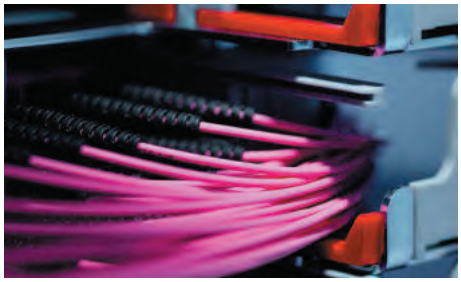

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Data Centre Solutions
Optimize your data centre network

"R&M data center solutions provide you with the security, reliability and flexibility you need in operations and help you carry out your future plans."

R&M introduces Anaconda

High capacity fiber distribution for today's Data Centers Building Entry Point (BEP).

Anaconda, a high capacity fiber distribution system designed to meet the demands of modern data center environment. The system offers unparalleled flexibility to accommodate today's major termination techniques and high fiber count cables. Anaconda has been designed with the challenges of a managing a future-proof data center in mind, targeting ease of use and flexibility in an increasingly high-density, complicated network environment.

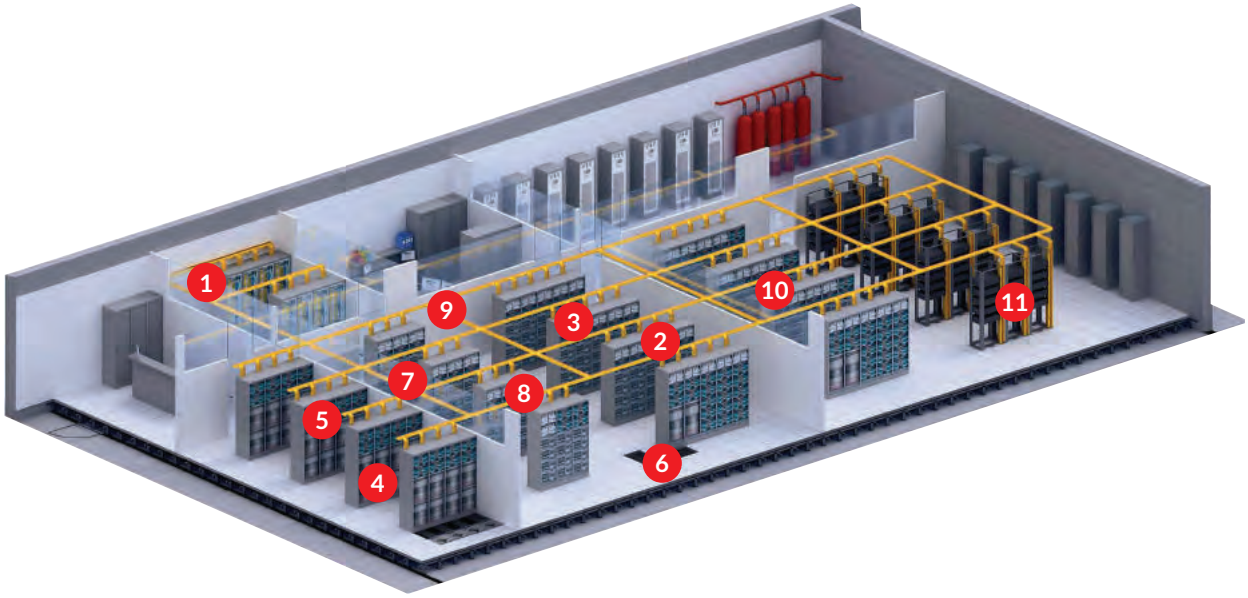
For further information on Anaconda customise solutions, please check with your local sales office.

Where we can help

R&M understands the business and IT issues that face enterprises today – concerns about network agility and deployment time, as well as the specific network documentation challenges affecting the data center. And we engineer our physical network solutions to address these issues. Regardless of the business vertical, data center solutions and the networking applications they support are critical to the enterprise.

- R&M ensures the most stringent standards in product quality, delivering connectivity that can improve your network throughput by 5 to 20%.
- Due to the flexibility of a medium sized company as ours, we can commit ourselves to special requirements, individual adaptations and even custom designed inhouse development.
- We help you effectively optimizing and documenting your network through our intelligent infrastructure management system. Hereby, you can minimize patching mistakes which cause 28% of downtime, and save up to 10% OpEx in networking energy costs.
- The installations are executed by certified planners and installers from the Qualified Partner Program (QPP).

Products for the Data Center Market



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Anaconda

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Security System
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Standard Density Panel
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Storage Area (SAN Manager)

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Raised Floor Box
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High Density Panel
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Closed Cable Management
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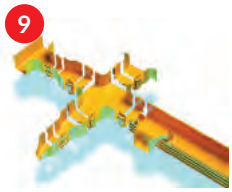
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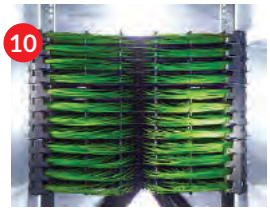
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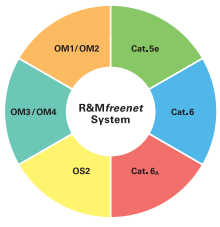


R&M*freenet*

Netscale-Solutions
The highest density

New cabling for networks

Today's application driven world is changing the demands on the data center. IT and infrastructure managers are under big pressure to deliver better performance at lower cost, and with greater agility than ever before. To get there takes the right fiber cabling solutions that meet the emerging 200G Ethernet standards. But what about tomorrow? Will you be able to scale your infrastructure to meet evolving IT needs?

R&M's Netscale-Solutions represent the world's highest-density fiber cable management solution, and the first to feature integrated intelligent infrastructure management functionality.

Designed as an ultra-high density platform that utilizes the smallest diameter uniboot patch cord for minimal cabling bulk, this solution boasts up to 67% higher density than legacy solutions and promises to eliminate a host of cable management problems that plague data centers today.

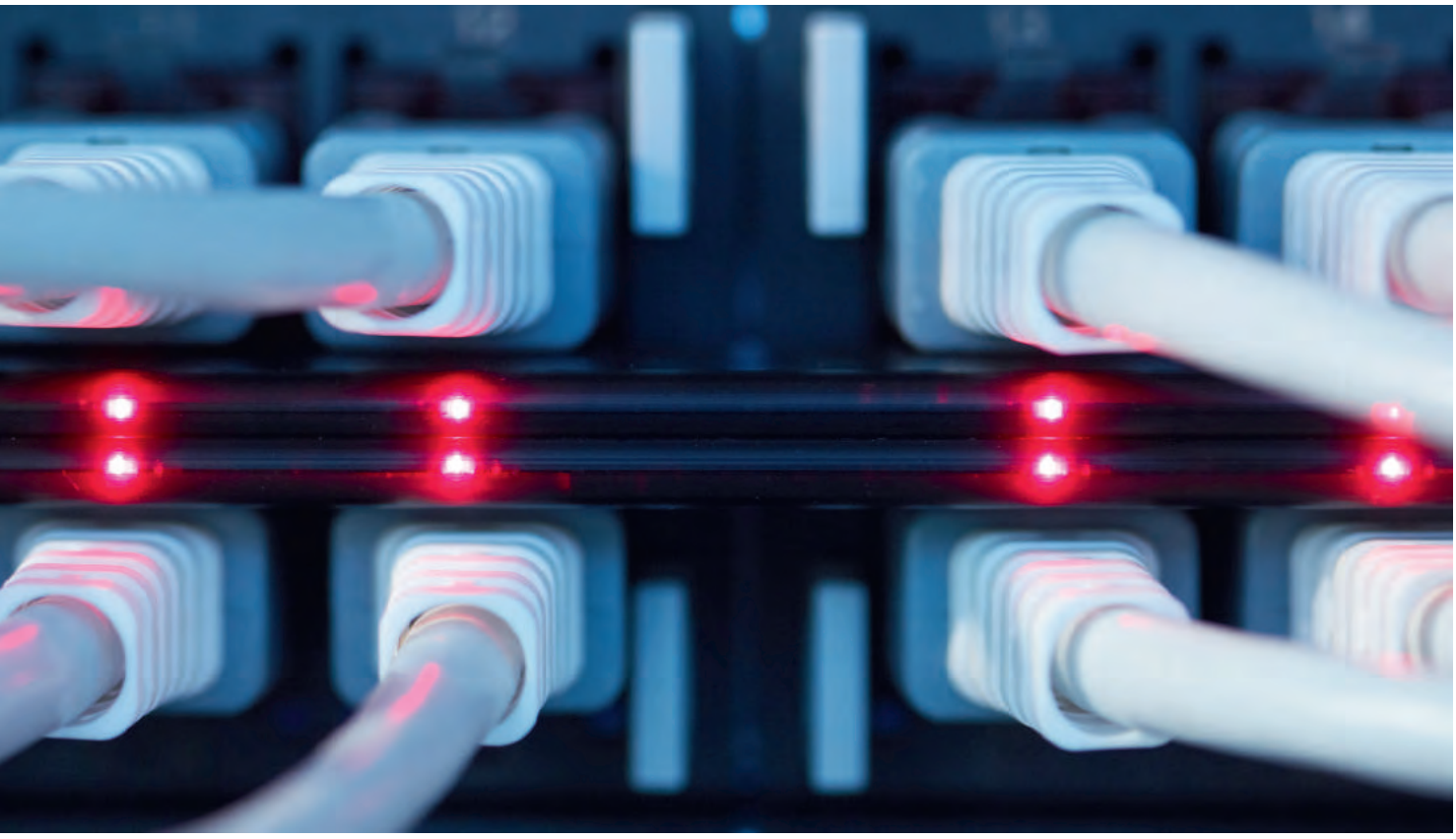
"Netscale sets a new benchmark for the industry and promises relief from cabling challenges."

Please scan the QR Code for more information on OM5 Network Transformation

R&MinteliPhy

Intelligent Infrastructure Management Solution

"R&M is setting standards in automated infrastructure management."



R&MinteliPhy is designed to provide accurate, real time monitoring of physical layer connectivity; necessary to manage, monitor and protect the infrastructure effectively 24/7/365.

The interaction of a patented, RFID-based connectivity monitoring system and an advanced cable management software controls a network in real-time. Tracking and notification as well as advanced reporting features result in a highly accurate documentation. Whether copper or optical fiber cords, each plug inserted in the patch panel is actively monitored. The physical location tracking helps you to control your network at any time. Through advanced work order processes, you can schedule connectivity changes and guide technicians through the maintenance tasks.

Manage

- Advanced cabling management tool featuring a template-based modeling of the complete network infrastructure
- Robust, server-based architecture to offer continuous, reliable operation, requiring minimal maintenance
- Administration of connectivity, assets and rack spaces done with an intuitive user interface
- Policy-based user management defines roles and access levels depending on the responsibility of users.
- Powerful work order management and freely configurable reporting structures enable full control of your MAC processes.

Monitor

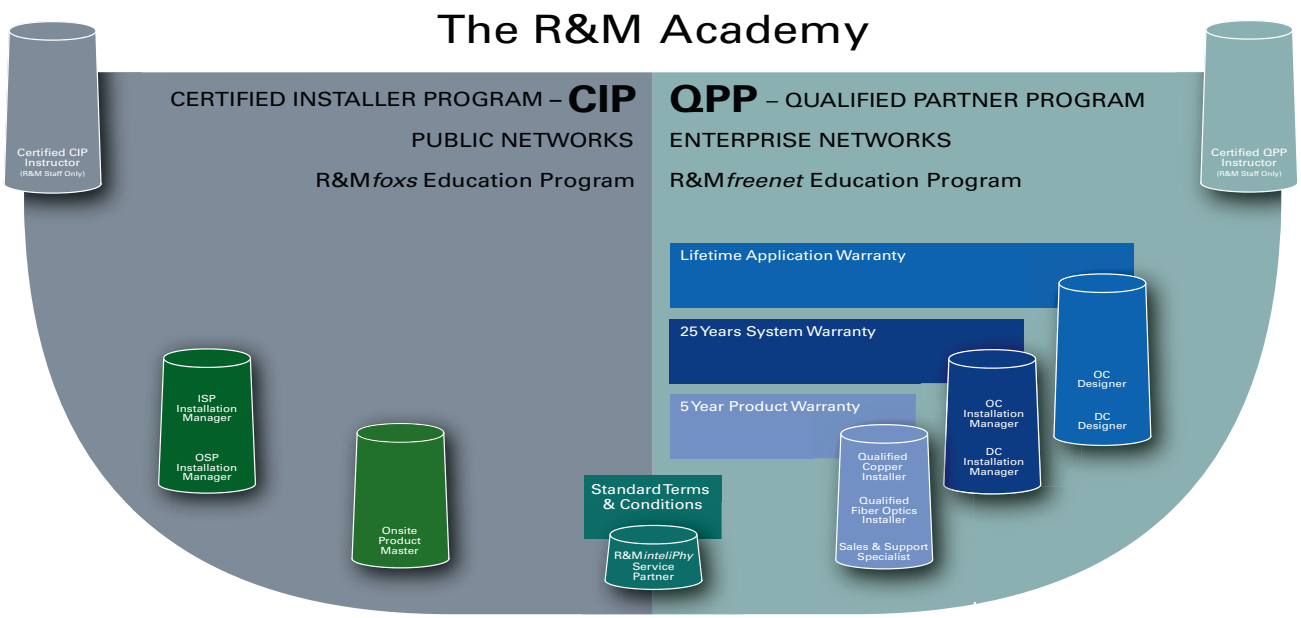
- Contactless connectivity detection system
- Sensor bars on the patch panels interact with fiber or copper cords equipped with R&M Security Level 4
- No additional contacts or a proprietary 9th wire patch cord needed
- Each position of a connection is detected and identified in real-time, allowing active monitoring of the entire network. Human errors during patching hence significantly reduced.

Please scan the QR Code for more information on R&MinteliPhy Solutions

The R&M Academy
Warranty Program

"Give your customers peace of mind with a lifetime application warranty for their Structured Cabling infrastructure through R&M's Qualified Partner Program (QPP)."

090.6990



The three-level R&M warranty system

R&M guarantees security for the future. As a certified R&M partner, you can pass on this guarantee in three levels – as true added value.

The 5-year product warranty

This guarantees that passive R&Mfreenet components will operate free of errors during the guarantee period and will exceed the requirements of all relevant cabling norms. Anyone who buys passive R&Mfreenet components will benefit from this protection.

The 25-year system warranty

This covers the entire R&Mfreenet cabling system and protects the end customer from component failures and installation problems. This guarantee is granted if the LAN cabling system consists exclusively of passive R&Mfreenet components and the entire installation is performed by a certified R&Mfreenet installer (or by an entity provided with more training by the QPP).

The lifelong application warranty

This guarantee requires that the passive R&Mfreenet cabling system be planned by a certified designer. It includes the promise that all protocols supported by industry standards will run on the system for its entire lifetime. No matter what requirements your end customers may stipulate, you can trust

Please scan the QR Code for more information on R&M Warranty Program

RJ45 Connection Modules Cat. 6_A EL

090.7199

Features

- Meets the Cat. 6_A ISO component specification (for the entire re-embedded plug range as specified by the standards ISO/IEC 11801, EN 50173, TIA 568-C.2, IEC 60603-7-51 and 60603-7
- Exceeding the IEEE 802.3 an minimum requirements for 10GBASE-T performance
- Tool-free (w/o special tools) connection of installation cables of AWG 22 - 26 plus stranded cables of AWG 22/7 - 26/7

Ordering Information	Description	PU	Part Number
090.7164	**Connection Module Cat. 6_A EL, RJ45/s Freenet** Scope of supply: • RJ45 Cat. 6_A EL connection module, shielded • Mounting plate • Dust cover		
	10x	10	R813504
	100x	100	R813505
090.7165	**Connection Module Cat. 6_A EL, RJ45/u Freenet** Scope of supply: • RJ45 Cat. 6_A EL connection module, unshielded • Mounting plate • Dust cover		
	10x	10	R813506
	100x	100	R813507
090.7180	**Connection Module Cat. 6_A EL, RJ45/s Freenet, special** Scope of supply: • RJ45 Cat. 6_A EL connection module, shielded • Dust cover		
	10x	10	R813508
	100x	100	R813509
090.7179	**Connection Module Cat. 6_A EL, RJ45u Freenet, special** Scope of supply: • RJ45 Cat. 6_A EL connection module, unshielded • Dust cover		
	10x	10	R813510
	100x	100	R813511

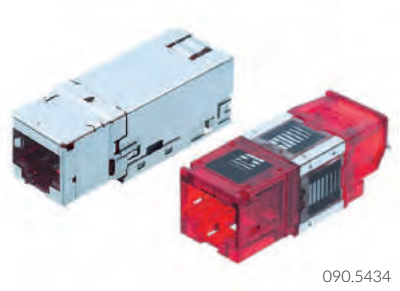
Please scan the QR Code for more information on Cat. 6A EL – Shielded Installation Guide

Ordering Information	Description	PU	Part Number
090.7170	**Connection Module Cat. 6_A EL, RJ45/s, Keystone** Scope of supply: • RJ45 Cat. 6_A EL connection module, shielded • Keystone adapter • Dust cover		
	10x	10	R813512
	100x	100	R813513
090.7171	**Connection Module Cat. 6_A EL, RJ45/u, Keystone** Scope of supply: • RJ45 Cat. 6_A EL connection module, unshielded • Keystone adapter • Dust cover		
	10x	10	R813514
	100x	100	R813515
090.7166	**Connection Module Cat. 6_A EL, RJ45/s, Snap-in, black** Scope of supply: • RJ45 Cat. 6_A EL connection module, shielded • Snap-in adapter • Dust cover		
	10x	10	R813516
	100x	100	R813517
090.7168	**Connection Module Cat. 6_A EL, RJ45/u, Snap-in, black** Scope of supply: • RJ45 Cat. 6_A EL connection module, unshielded • Snap-in adapter • Dust cover		
	10x	10	R813518
	100x	100	R813519
090.7173	**Connection Module Cat. 6_A EL, RJ45/s Adapter No.1** Scope of supply: • RJ45 Cat. 6_A EL connection module, shielded • Adapter No.1 • Dust cover		
	10x	10	R813520

Ordering Information	Description	PU	Part Number
090.7172	**Connection Module Cat. 6_A EL, RJ45/u Adapter No.1** Scope of supply: • RJ45 Cat. 6_A EL connection module, unshielded • Adapter No.1 • Dust cover		
	10x	10	R813521
042.159	**Termination Tool Cat. 6_A EL** • Termination tool for R&M Cat. 6_A EL module. • Reduce termination time and increases ease of operation • Color : red • Dimensions : 70 x 33 x 12 mm (folded) • Material : plastic		
		1	R814571
090.7573	**Adapter 90° Module RJ45** • The module for the classic office cabling. Easy to install with solid Cat. 6_A performance. Scope of supply: • 10xRJ45 Cat. 6_A EL 90 degree entry, shielded per bag • Manual		
	$C6_A$-EL/s-10	10	R833665
	$C6_A$-EL/u-10	10	R833666

Please scan the QR Code for more information on Cat. 6A EL 90 Degree Module

RJ45 Connection Modules Cat. 6_A ISO



090.5434

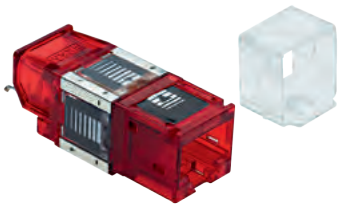
Features

- Exceeds the Cat. 6_A ISO specification (mated) for the entire re-embedded plug range as specified by IEC 60603-7-51 (shielded), 60603-7-41 (unshielded) and IEC 60512-27-100. Exceeds the Cat. 6_A specification (mated) for the entire re-embedded plug range as specified by TIA/EIA 568-C.2
- Achieves exceptional margins when installed as part of an R&M Cat. 6_A ISO 4-connector channel or permanent link, exceeding the IEEE 802.3an minimum requirements for 10GBASE-T performance, as well as the requirements for Class EA performance according to ISO/IEC 11801 ed. 2002, Amendment 1 and 2, and Cat. 6_A performance according to TIA/EIA 568-C.2
- Automatic cutting of wires for precise, consistent termination

Ordering Information	Description	PU	Part Number
090.5360	**Connection Module Cat. 6_A ISO, RJ45/s** Scope of supply: • RJ45 Cat. 6_A ISO connection module, shielded • Mounting plate • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R509504
	100x	100	R509505
090.5447	**Connection Module Cat. 6_A ISO, RJ45/u** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded • Mounting plate • Dust cover • Cable tie • Installation instructions		
	10x	10	R509500
	100x	100	R509501
090.5361 090.5973	**Connection Module Cat. 6_A ISO, RJ45/s, Snap-in** Scope of supply: • RJ45 Cat. 6_A ISO connection module, shielded • Snap-in adapter • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R509506
	24x (Black)	24	R511999
	100x	100	R509507

Please scan the QR Code for more information on Cat. 6A Copper Cabling for High-Performance Data Networks

Ordering Information	Description	PU	Part Number
090.5448 090.5970	**Connection Module Cat. 6_A ISO, RJ45/u, Snap-in** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded • Snap-in adapter • Dust cover • Cable tie • Installation instructions		
	10x	10	R509502
	24x (Black)	24	R511998
	100x	100	R509503
090.5359	**Connection Module Cat. 6_A ISO, 1xRJ45/s** Scope of supply: • RJ45 Cat. 6_A ISO connection module, shielded, without mounting plate • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R803927
	100x	100	R510088
090.5449	**Connection Module Cat. 6_A ISO, 1xRJ45/u** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded, without mounting plate • Dust cover • Cable tie • Installation instructions		
	10x	10	R803926
	100x	100	R510087
090.5451	**Connection Module Cat. 6_A ISO, 1xRJ45/s, Keystone** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded, with Keystone adapter • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R509509

Ordering Information	Description	PU	Part Number
090.5450	**Connection Module Cat. 6_A ISO, 1xRJ45/u, Keystone** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded, with Keystone adapter • Dust cover • Cable tie • Installation instructions		
	10x	10	R509508
090.6795	**Connection Module Cat. 6_A ISO, 1xRJ45/s, adapter No.1** Scope of supply: • RJ45 Cat. 6_A ISO connection module, shielded, with adapter No.1 • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R808370
 090.6789	**Connection Module Cat. 6_A ISO, 1xRJ45/u, adapter No.1** Scope of supply: • RJ45 Cat. 6_A ISO connection module, unshielded, with adapter No.1 • Dust cover • Cable tie • Installation instructions		
	10x	10	R808371
090.6683	**Termination Tool Cat. 6_A ISO** • Termination tool for R&M Cat. 6_A (ISO) module. • Closes all four levers of the RJ45 with one operation & terminates all 4 pairs at the same time • Reduce termination time and increases ease of operation • Fold out metal hook helps open the module and remove wires from the IDC. Color : black / red Dimensions : 205 x 99 x 22 mm Material : plastic: POM		
		1	R516050
090.6671	**Cable Preparation Tool Cat. 6_A ISO** • Cable preparation tool, black/red, for PIMF cables • Fast and easy cable preparation • Reduces termination time • Idealy suited for cable preparation for the R&M Cat. 6_A ISO connection module Color : black / red Dimensions : 61.2 x 134.9 x 17.5 mm Material : plastic: POM		
		1	R804325

RJ45 Connection Modules Cat. 6 Real10 Cat. 6

010.2857

Features

- As part of a Real10 Cat. 6 channel, the Real10 connection module exceeds the minimum requirements of the IEEE 802.3an standard on 10GBASE-T performance, as well as the requirements for Class EA performance acc. to ISO/IEC 11801 ed. 2.2, June 2011 and Cat. 6_A performance according to TIA/EIA 568-C.2
- Exceeds Cat.6 specifications acc. to ISO/IEC 11801, EN 50173 and TIA/EIA 568 C 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
010.2859	**Connection Module Real10 Cat. 6, 1xRJ45/s** Scope of supply: • RJ45 Real10 Cat. 6 connection module, shielded • Mounting plate • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	*R302372*
	100x	100	*R304327*
010.2857	**Connection Module Cat. 6, 1xRJ45/u** Scope of supply: • RJ45 Cat. 6 connection module, unshielded • Mounting plate • Dust cover • Cable tie • Installation instructions		
	10x	10	*R302373*
	100x	100	*R304328*
010.2016.1	**Connection Module Real10 Cat. 6, 1xRJ45/s, Snap-in** Scope of supply: • RJ45 Real10 Cat. 6 connection module, shielded • Snap-in adapter • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x	10	R304373
	24x (Black)	24	R512370
	100x	100	R308732

Ordering Information	Description	PU	Part Number
010.2017.1	**Connection Module Cat. 6, 1xRJ45/u, Snap-in** Scope of supply: • RJ45 Cat. 6 connection module, unshielded • Snap-in adapter • Dust cover • Cable tie • Installation instructions		
	10x	10	*R304374*
	24x (Black)	24	R512369
	100x	100	*R308734*
090.7150	**Connection Module Cat. 6, 1xRJ45/u, Keystone** Scope of supply: • RJ45 Cat. 6 connection module, unshielded, with Keystone adapter • Dust cover • Cable tie		
	10x	10	R813810

Please scan the QR Code for more information on multi-functional FM45 Connector Installation

RJ45 Connection Modules Cat. 5e

090.5327

Features

- Exceeds the Cat. 5e specification (mated) for the entire de-embedded plug range as specified by the standards (ISO/IEC 11801, EN 50173 and TIA/EIA 568C)
- Attains Cat. 5e values together with Cat. 5e patch cables, as specified in standard IEC 11801 Ed. 2.2
- Achieves best transmission characteristics with R&Mfreenet Cat. 5e patch cables
- Gold-plated contact area and tin-plated insulation displacement contact area
- Maximum reliability through special contact design that does not use internal transfer points such as printed circuit board
- Capacitive and inductive compensation

Special packing unit for installers
Connection modules 100xRJ45. Saves time and waste.
[1] Approval: UL

Ordering Information	Description	PU	Part Number
090.5328	**Connection Module Cat. 5e, 1xRJ45/s** Scope of supply: • RJ45 Cat. 5e connection module, shielded • Mounting plate • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x [1]	10	*R925370*
	100x	100	*R304325*
090.5327	**Connection Module Cat. 5e, 1xRJ45/u** Scope of supply: • RJ45 Cat. 5e connection module, unshielded • Mounting plate • Dust cover • Cable tie • Installation instructions		
	10x [1]	10	*R925371*
	100x [1]	100	*R304326*
090.5332	**Connection Module Cat. 5e, 1xRJ45/s, Snap-in** Scope of supply: • RJ45 Cat. 5e connection module, shielded • Snap-in adapter • EMC cover • Dust cover • Cable tie • Installation instructions		
	10x [1]	10	*R302780*
	100x	100	*R308731*

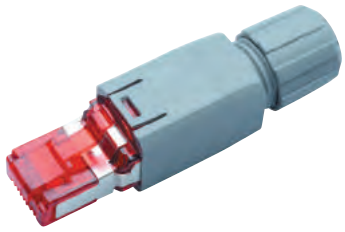
Ordering Information	Description	PU	Part Number
090.5331	**Connection Module Cat. 5e, 1xRJ45/u, Snap in** Scope of supply: • RJ45 Cat. 5e connection module, unshielded • Snap-in adapter • Dust cover • Cable tie • Installation instructions		
	10x [1]	10	*R302518*
	100x [1]	100	*R308733*

FM45 IP20 / IP65 / IP67 Field Termination

090.3248

Features

- First tool-free, field-terminated RJ45 connector
- Wide range of applications, dependable solid construction, Swiss quality
- Accepts unshielded (U/UTP) and shielded (S/FTP) cables **up to 8 mm** in diameter, and wires or strands up to AWG 26 to AWG 22
- 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
- Eligible for 1 connector warranty

Ordering Information	Description	PU	Part Number
 090.7437	**FM45 Connector Cat. 6_A IP20, 4P, TIA 568-A/B, 10x** • Field-terminated RJ45 connector with housing • Color housing: gray (RAL 7042) • Color termination block: Red, Scope of supply: • RJ45 connection kit • Housing IP20 Plastic • Instruction manual	10	R815651
090.3026	**FM45 Connector IP20** • Field-terminated RJ45 connector with housing • Color housing: gray (RAL 7042) • Color termination block: gray (RAL 7035) Scope of supply: • RJ45 connection kit • Housing IP20 • Instruction manual		
	4P, TIA 568A (AWG26-23)	10	R795765
	4P, TIA 568B (AWG26-23)	10	R795766
	4P, TIA 568A (AWG26-23)	10	R795767
090.6471	**FM45 Connector IP20, Angled** • Field-terminated RJ45 connector • Unshielded with housing, angled • Color housing: gray (RAL 7042) • Color termination block: gray (RAL 7035) Scope of supply: • RJ45 connection kit • Housing IP20 • Instruction manual		
	4P, TIA 568A (AWG26-23)	10	R803498
	4P, TIA 568B (AWG26-23)	10	R803499
	Available in unshielded only		

Installation Cables Cat. 7
Real10 Cat. 7

Features
- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- For frequencies from 750 MHz up to 1500 MHz

020.0983

Ordering Information	Description	PU	Part Number
020.0983	**Installation Cable Real10 Cat. 7, S/FTP** • Real10 Cat. 7, S/FTP cable "light" • Foil and tin-plated copper braid shielding • 100 Ohm impedance		
	4P, 1000 MHz, LSZH, 500 m	500	R35257
	4P, 1000 MHz, LSFRZH, 500 m	500	*R35060*
	4P, 1200 MHz, LSFRZH, 500 m	500	R319522
	4P, 1200 MHz, LSFRZH, 500 m	500	*R306257*
	4P, 1500 MHz, LSFRZH, 500 m	500	R507032

Cable designations acc. to ISO/IEC-11801 (2002)

List of reference

Old designations	New designations
UTP	U/UTP
FTP	F/UTP
S-FTP	SF/UTP
S-STP	S/FTP

Legend
XX/XXX

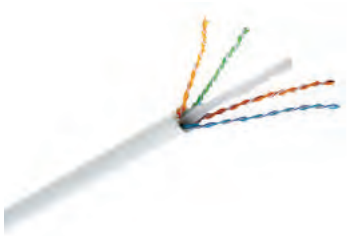
- Twisted pair TP — TP
- Conductor shielding — U = unshieldedshielding; F = foil shield
- Overall shield — U = unshielded; F = foil shield; S = braided screen; SF = braided screen and foil shield

Cat.6 and Cat. 6_A Real10

010.2856

Features

- 100 Ohm installation cable
- Suitable for voice, video and data transmission
- Real10 Cat. 6 is suitable for transmission frequencies of up to 650 MHz and complies with the 10GBase-T requirements of IEEE802.3an
- Cat.6 is suitable for transmission frequencies of up to 450 MHz

Ordering Information	Description	PU	Part Number
 090.5141	**Installation Cable Real10 Cat. 6_A, U/UTP** • Real10 Cat. 6_A, U/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 650 MHz • Not compatible / suitable with FM45		
	4P, 650 MHz, PVC, diameter 9mm, 305 m	305	R504236
	4P, 650 MHz, LSZH, diameter 9mm, 305 m	305	R504252
	4P, 650 MHz, PVC, diameter 7mm, 500 m	500	R804268
	4P, 650 MHz, LSZH, diameter 7mm, 500 m, Grey	500	**R804269**
	4P, 650 MHz, LSZH, diameter 8.4mm, 500 m	500	*R807392*
	4P, 650 MHz, PVC, diameter 8.4mm, 500 m	500	R807393
	4P, 650 MHz, PE, diameter 8.4mm, 500 m	500	R807394
010.2856	**Installation Cable Real10 Cat. 6_A, U/FTP** • Real10 Cat. 6_A, U/FTP cable • Foil-shielded pairs • 100 Ohm impedance • Data transmission frequencies of up to 650 MHz		
	4P, 650 MHz, LSZH, 500 m	500	***R308247***
020.0983	**Installation Cable Real10 Cat. 6_A, S/FTP** • Real10 Cat. 6_A, S/FTP cable • Foil and tin-plated copper braid shielding of pairs • 100 Ohm impedance • Data transmission frequencies of up to 650 MHz		
	4P, 650 MHz, LSZH, 500 m	500	*R305649*

Ordering Information	Description	PU	Part Number
010.1560	**Installation Cable Cat. 6, U/UTP** • Cat. 6, U/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 450 MHz		
	4P, 450 MHz, LSZH, 500 m	305	R317603
	4P, 450 MHz, PVC, 500 m	500	*R35056*
	4P, 450 MHz, LSZH, 305 m	305	R802920
	4P, 450 MHz, LSZH, 500 m	500	***R35057***
020.0979	**Installation Cable Cat. 6, F/UTP** • Cat. 6, F/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 450 MHz		
	4P, 450 MHz, LSZH, 500 m	500	R314933

SGBP Certified Product The following R&M products have completed the stringent requirements of the SGBP certification scheme: R804269 / ***R308247 / R35057***

Cat. 5e Industrial

Features

- Industrial installation cables for extreme environmental conditions
- Water and oil repellent
- Suitable for indoor and outdoor installation

020.0983

Ordering Information	Description	PU	Part Number
020.0983	**Industry Cable Cat. 5e, S/FTP** • Standards: EN 50173-1, ISO/IEC 11801, EN 50288-2-1, IEC 61156-5 • Fire classification: IEC 61034, IEC 60754-2, IEC 60332-3-24 • Chemical resistance: standard IRM 902, 7 days/23°C, 4 hours/70°C in mineral oil and standard IRM 903, 7 days/23°C, 4 hours/70°C in diesel • Temperature range: –40°C to +85°C • Color: RAL 7035 • Foil and tin-plated copper braid shielding • 100 Ohm impedance • Data transmission frequency up to 200 MHz		
	4P, 200 MHz, LSFRZH, 500 m	500	R309319

Cat. 5e

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

020.0980

Ordering Information	Description	PU	Part Number
020.0980	**Installation Cable Cat. 5e, U/UTP** • Cat. 5e, U/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 200 MHz		
	4P, 200 MHz, PVC, 500 m	500	R35044
	4P, 200 MHz, LSZH, 500 m	500	R35045
	4P, 200 MHz, PVC, 305 m	305	*R35291*
	4P, 200 MHz, PVC, 305 m, blue	305	R795030
	4P, 200 MHz, LSZH, 305 m	305	R35292
020.0979	**Installation Cable Cat. 5e, F/UTP** • Cat. 5e, F/UTP cable • Aluminum foil shielding • Tin-plated copper drain wire • 100 Ohm impedance • Data transmission frequencies of up to 200 MHz		
	4P, 200 MHz, LSZH, 500 m	500	R35049
	4P, 200 MHz, PVC, 305 m	305	R300317
020.0982	**Installation Cable Cat. 5e, SF/UTP** • Cat. 5e, SF/UTP cable • Aluminum foil and tin-coated copper braid shielding • 100 Ohm impedance • Data transmission frequencies of up to 200 MHz		
	4P, 200 MHz, PVC, 500 m	500	R35052
	4P, 200 MHz, LSZH, 500 m	500	R302089
	4P, 200 MHz, LSFRZH, 500 m	500	R35053

Ordering Information	Description	PU	Part Number
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: • EN 50173, ISO/IEC 11801 Features: • Multipair, Cat. 5, U/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 100 MHz		
	25P, LSZH, 300 m	300	R310918
	50P, LSZH, 300 m	300	R310916
	100P, LSZH, 300 m	300	R310917
020.0978	**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 Features: • Multipair, Cat. 5, F/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 100 MHz		
	25P, LSZH, 300 m	300	R310908
	50P, LSZH, 300 m	300	R310920
	100P, LSZH, 300 m	300	R310921

Cat. 3
Multipair

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 of up to 16 MHz

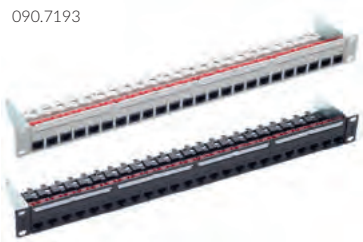
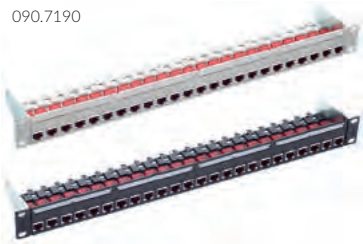
Ordering Information	Description	PU	Part Number
020.0978	**Multipair Installation Cable Cat. 3, U/UTP** • Multipair, Cat. 3, U/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 16 MHz		
	25P, LSZH, 300 m	1	*R311322*
	50P, LSZH, 300 m	1	*R311319*
	100P, LSZH, 300 m	1	*R311320*
020.0978	**Multipair Installation Cable Cat. 3, F/UTP** • Multipair, Cat. 3, F/UTP cable • 100 Ohm impedance • Data transmission frequencies of up to 16 MHz		
	25P, LSZH, 300 m	1	R311321
	50P, LSZH, 300 m	1	R311323
	100P, LSZH, 300 m	1	R311324

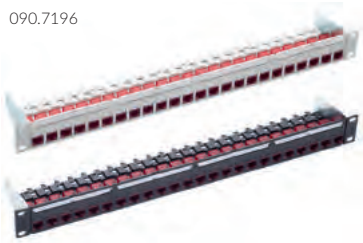
1U 24-Port Patch Panel

Features

- Modular patch panel with integrated cable tie shelf, 19" fastening kit, labeling fields with exchangeable labeling strips.
- The ports are prepared for a visual color coding system and automated infrastructure management systems.
- Panel polycarbonate, fiber-glass-reinforced, halogen-free material, UL 94 listed and steel: DC01 (1.0330), 1.5 mm.
- Color front: medium gray (NCS 2502-B) / steel: blue, chromatized

090.7190

Ordering Information	Description	PU	Part Number
R&MinteliPhy - compatible 090.7197 090.7188	**19" 1U PC Patch Panel 24xRJ45/s, Cat. 6_A EL, fully populated** Scope of supply: • 19" 1U 24-port patch panel, empty, shielded • 24 RJ45 Cat. 6_A EL connection modules, shielded and dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions		
	Gray		R813489
	Black		R813487
R&MinteliPhy - compatible 090.7193  090.7189	**19" 1U PC Patch Panel 24xRJ45/u, Cat. 6_A EL, fully populated** Scope of supply: • 19" 1U 24-port patch panel, empty, unshielded • 24 RJ45 Cat. 6_A EL connection modules, unshielded and dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions		
	Gray		R813490
	Black		R813488
R&MinteliPhy - compatible 090.7190  090.7195	**19" 1U PC Patch Panel 24xRJ45/s, Cat. 6_A ISO, fully populated** Scope of supply: • 19" 1U 24-port patch panel, empty, shielded • 24 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions		
	Gray		R813493
	Black		R813491

Ordering Information	Description	PU	Part Number
R&MinteliPhy - compatible 090.7196  090.7194	**19" 1U PC Patch Panel 24xRJ45/u, Cat. 6_A ISO, fully populated** Scope of supply: • 19" 1U 24-port patch panel, empty, unshielded • 24 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions		
	Gray		R813494
	Black		R813492
R&MinteliPhy - compatible 090.7192 090.7191	**19" 1U PC Patch Panel 24-Port/s, Cat. 6_A, empty** Scope of supply: • 19" 1U 24-port patch panel, empty • 19" mounting kit • 4 labeling strips • Installation instructions		
	Gray		R813485
	Black		R813483
R&MinteliPhy - compatible 090.7192 090.7191	**19" 1U PC Patch Panel 24-Port/u, Cat. 6_A, empty** Scope of supply: • 19" 1U 24-port patch panel, empty • 19" mounting kit • 4 labeling strips • Installation instructions		
	Gray		R813486
	Black		R813484
 090.7036	**Basic Blind Cover** • To cover one unused RJ45 connection module port with cut out 16.3 x 14.1 mm. Color: white (RAL 9010). • Color code RAL : 9010 • Dimensions : 16 x 15.2 x 5.5 mm • Material : plastic, PC + ABS		
	White		R812462
	Black		R807395

1U Patch Panels 24-Port

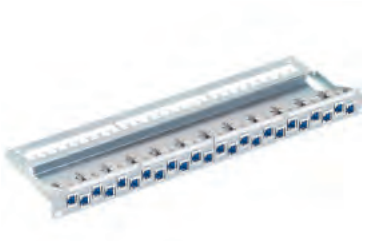
010.2064

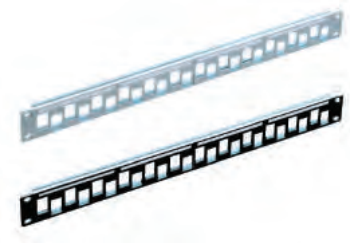
090.5808

Features

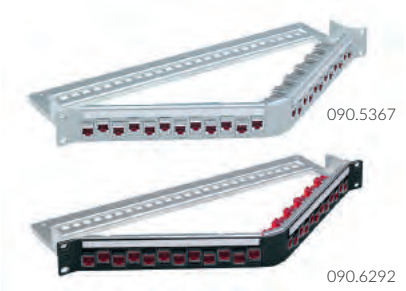
- The high packing density results in a capacity of 24 shielded or unshielded RJ45 connections
- Every module is individually terminated
- The snap-in adapter is mechanically secured with a plastic wedge
- 8-color coding system with plastic wedges
- Integrated cable tie shelf
- Direct grounding concept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

Ordering Information	Description		PU	Part Number
090.5365 090.6291	**19" 1U Patch Panel 24xRJ45/s, Cat. 6_A ISO** Scope of Supply: • 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf • 24 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R509882
		Black	1	R514693
090.5364 090.6290	**19" 1U Patch Panel 24xRJ45/u, Cat. 6_A ISO** Scope of supply: • 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf • 24 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • 19" mounting kit • 4 labeling strips • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R509883
		Black	1	R514694
 010.2065	**19" 1U Patch Panel 24xRJ45/u, Cat. 6** Scope of supply: • 19" 1U 24-port metal 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	**Gray**	1	*R305117*
		Black	1	*R514696*

Ordering Information	Description		PU	Part Number
 010.2064	**19" 1U Patch Panel 24xRJ45/s, Real10 Cat. 6** Scope of supply: • 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	**Gray**	1	*R305120*
		Black	1	*R514695*
090.5335	**19" 1U Patch Panel 24xRJ45/u, Cat. 5e** Scope of supply: • 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	**Gray**	1	*R305118*
		Black	1	*R321604*
090.5336	**19" 1U Patch Panel 24xRJ45/s, Cat. 5e** Scope of supply: • 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	**Gray**	1	*R305121*
		Black	1	*R313048*
010.2067 090.5808	**19" 1U Patch Panel 24-Port** • With a capacity for 24 snap-in connection modules unshielded or FO adapters snap-in frame Scope of supply: • 19" 1U 24-port metal patch panel, empty, integrated cable tie shelf • 19" mounting kit • 4 labeling strips • Installation instructions			
	Empty	**Gray**	1	*R305119*
		Black	1	*R511996*

Ordering Information	Description		PU	Part Number
 090.5124	**19" 1U Patch Panel 24-Port BASIC** • With a capacity for 24 snap-in connection modules unshielded or FO adapters snap-in frame Scope of supply: • 19" 1U 24-port metal patch panel, empty • 19" mounting kit • 4 labeling strips • Installation instructions			
	Empty	**Gray**	1	*R795454*
		Black	1	*R795465*
042.0011 042.0012	**19" 1U Patch Panel BASIC Cat. 6 24xRJ45/u** Scope of supply: • 19" 1U 24-port metal 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			
		Gray		*R795455*
		Black		*R795456*
042.0009 042.0008	**19" 1U Patch Panel BASIC Cat. 5e 24xRJ45/u** Scope of supply: • 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			
		Gray		*R795457*
		Black		*R795458*

1U Angled Patch Panels 24-Port



Features

- Angled design saves rack unit space by routing patch cables to vertical cable management
- 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
090.7346	**19" 1U Angled Patch Panel 24-Port, Cat. 6_A, Keystone, black, empty** • With a capacity of up to 24 Cat. 6_A ISO / Cat. 6_A EL, Keystone connection modules shielded or unshielded. Scope of supply: • 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf • 19" mounting kit • Labeling kit • 24 cable ties • Installation instructions			
	Empty	**Black**	1	R815656
090.5049 090.6285	**19" 1U Angled Patch Panel 24xRJ45/s, Real10 Cat. 6** Scope of supply: • 19" 1U 24-port angled, 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 • Labeling kit • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R500539
		Black	1	R803924

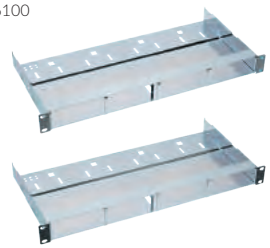
Ordering Information	Description		PU	Part Number
090.5048 090.6284	**19" 1U Angled Patch Panel 24xRJ45/u, Cat. 6** Scope of supply: • 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf • 24 Cat. 6 connection modules, RJ45/u incl. dust covers • 19" mounting kit • Labeling kit • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R500532
		Black	1	R803925
090.5051 090.6142	**19" 1U Angled Patch Panel 24-Port** • With a capacity of up to 24 snap-in connection modules shielded/unshielded Scope of supply: • 19" 1U 24-port angled, metal patch panel, empty, integrated cable tie shelf • 19" mounting kit • Labeling kit • Installation instructions			
	Empty	**Gray**	1	R506796
		Black	1	R511997
 090.5054	**19" 1U Angled Patch Panel, Cover** • Protection against external mechanical factors • Mounted and removed without tools			
			1	R502913

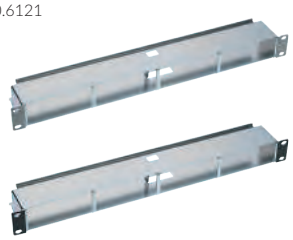
1U HD Patch Panels
48-Port

Features

- Ultra-high density patch panel enables 48-ports in 1U 19" format
- Modular design for full flexibility: Cat. 6_A ISO shielded/unshielded
- With cable tie shelf for stable and reliable cable management
- Without cable tie shelf for space critical applications
- Support for High Density Security System, Levels 1 and 3
- Shielded version includes complete integrated grounding system
- Ample labelling options despite limited space
- Stable, robust design with optimum handling
- Available in gray and black

Ordering Information	Description		PU	Part Number
R&MinteliPhy - compatible 090.6102 090.6113	**19" 1U HD Patch Panel 48xRJ45/s, Cat. 6_A ISO** Metal patch panel with integrated cable tie shelf Scope of supply: • 19" 1U HD patch panel • 4 12-port/s connection module holders HD • Grounding system • 48 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • 19" mounting kit • Cable ties • 4 velcro strips • Installation instructions			
	Fully populated	**Gray**	1	R512417
		Black	1	R512722
R&MinteliPhy - compatible 090.6101 090.6112	**19" 1U HD Patch Panel 48xRJ45/u, Cat. 6_A ISO** Metal patch panel with integrated cable tie shelf Scope of supply: • 19" 1U HD patch panel • 4 12-port/u connection module holders HD • 48 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • 19" mounting kit • Cable ties • 4 velcro strips • Installation instructions			
	Fully populated	**Gray**	1	R512418
		Black	1	R512723

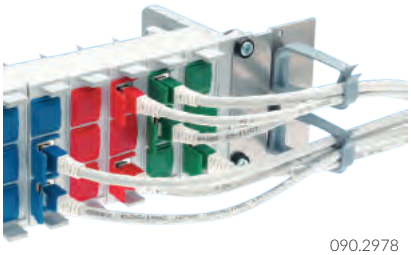
Ordering Information	Description		PU	Part Number
R&MinteliPhy - compatible 090.6100  090.6107	**19" 1U HD Patch Panel 48-Port** Metal patch panel with integrated cable tie shelf. Ready for all HD inserts (copper/FO) Scope of supply: • 19" 1U HD patch panel • 19" mounting kit • 4 velcro strips • Installation instructions			
	Empty	**Gray**	1	R512416
		Black	1	R512721
 090.6128	**19" 1U HD Patch Panel, cover** Protection against external mechanical factors through snap-on cover. • Color : steel: blue, chromatized • Dimensions : 448 x 6 x 182.5 mm • Material : steel: DC01 (1.0330), 1.0 mm			R512698
R&MinteliPhy - compatible 090.6125 090.6116	**19" 1U HD Basic Patch Panel 48xRJ45/s, Cat. 6_A ISO** Scope of supply: • 19" 1U HD Basic patch panel • 4 12-port/s connection module holders HD • Grounding system • 48 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • 19" mounting kit • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R512422
		Black	1	R512727

Ordering Information	Description		PU	Part Number
R&MinteliPhy - compatible 090.6126 090.6115	**19" 1U HD Basic Patch Panel 48xRJ45/u, Cat. 6_A ISO** Scope of supply: • 19" 1U HD Basic patch panel • 4 12-port/u connection module holders HD • 48 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • 19" mounting kit • Cable ties • Installation instructions			
	Fully populated	**Gray**	1	R512423
		Black	1	R512728
R&MinteliPhy - compatible 090.6121  090.6114	**19" 1U HD Basic Patch Panel 48-Port** Scope of supply: • 19" 1U HD Basic patch panel • 19" mounting kit • Installation instructions			
	Empty	**Gray**	1	R512421
		Black	1	R512726
 090.6141	**Label Holder HD** Scope of supply: • Label holder • Label cover • Label strips			
			1	R512430
090.6134 090.6140	**Blind Cover HD** For use with 19" 1U HD Basic patch panel and 19" 1U HD patch panel.			
		Black	1	R802923
		Gray	1	R802922

Ordering Information	Description	PU	Part Number
090.6130 090.6137	**Connection Module Holder HD, 4x 6-port/s with blind element** To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 24. Scope of supply: • 4 6-port/s connection module holders HD • Grounding system • Cable ties • Manual grounding concept		
	[1] Cat. 6_A ISO Gray	1	R512427
	[1] Cat. 6_A ISO Black	1	R512732
090.6131 090.6138	**Connection Module Holder HD, 4x 6-port/u with blind element** To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 24. Scope of supply: • 4 6-port/u connection module holders HD • Cable ties		
	[1] Cat. 6_A ISO Gray	1	R512429
	[1] Cat. 6_A ISO Black	1	R512734
090.6129 090.6136	**Connection Module Holder HD, 4x 12-port/s** To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 48. Scope of supply: • 4 12-port/s connection module holders HD • Grounding system • Cable ties • Manual grounding concept		
	[1] Cat. 6_A ISO Gray	1	R512426
	[1] Cat. 6_A ISO Black	1	R512731
090.6132 090.6139	**Connection Module Holder HD, 4x 12-port/u** To be mounted into 19" 1U HD Basic and HD patch panels, shielded. The ports are consecutively numbered from 1 to 48. Scope of supply: • 4 12-port/u connection module holders HD • Cable ties		
	[1] Cat. 6_A ISO Gray	1	R512428
	[1] Cat. 6_A ISO Black	1	R512733

[1] These Connection Module Holders can be fitted with Label Holder (R512430) or the security system as accessories.

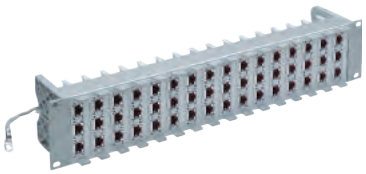
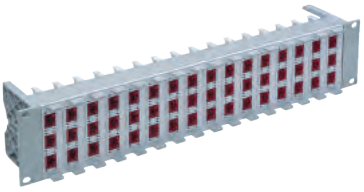
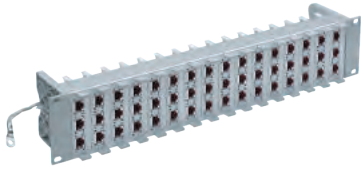
2U Global Patch Panels
48-Port

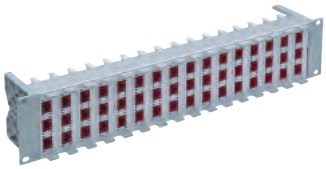


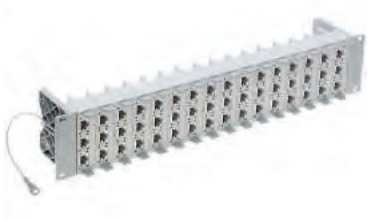
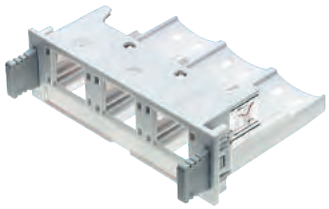
090.2978

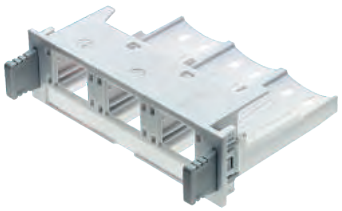
Features

- Thanks to their modular design the panels can be fitted with up to sixteen 3x1-port connection module holders or blind elements (max. 48xRJ45/u or RJ45/s ports)
- Highly installation and service friendly thanks to the optimized fastening system
- Shielded version includes complete integrated grounding system
- Suitable for the R&M Security Systems, Level 1-3
- Exchangeable labeling strips
- Integrated strain relief on connection module holder

Ordering Information	Description	PU	Part Number
 090.5369	**19" 2U Global Patch Panel 48xRJ45/s, Cat. 6_A EL, fully populated** Scope of supply: • 19" 2U Global patch panel/s • 16 connection module holders 2U Global/s • Grounding system • 48 Cat. 6_A EL connection modules, RJ45/s incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Shielded		R813533
 090.5368	**19" 2U Global Patch Panel 48xRJ45/u, Cat. 6_A EL, fully populated** Scope of supply: • 19" 2U Global patch panel/u • 16 connection module holders 2U Global/u • 48 Cat. 6_A EL connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Unshielded		R813534
 090.5369	**19" 2U Global Patch Panel 48xRJ45/s, Cat. 6_A ISO** Scope of supply: • 19" 2U Global patch panel/s • 16 connection module holders 2U Global/s • Grounding system • 48 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	R509886

Ordering Information	Description	PU	Part Number
 090.5368	**19" 2U Global Patch Panel 48xRJ45/u, Cat. 6_A ISO** Scope of supply: • 19" 2U Global patch panel/u • 16 connection module holders 2U Global/u • 48 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	R509887
090.3107	**19" 2U Global Patch Panel 48xRJ45/s, Real10 Cat. 6** Scope of supply: • 19" 2U Global patch panel/s • 16 connection module holders 2U Global/s • 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		
	Fully populated	1	R505719
090.3109	**19" 2U Global Patch Panel 48xRJ45/u, Cat. 6** Scope of supply: • 19" 2U Global patch panel/u • 16 connection module holders 2U Global/u • 48 Cat. 6 connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	*R505718*
090.5344	**19" 2U Global Patch Panel 48xRJ45/u, Cat. 5e** Scope of supply: • 19" 2U Global patch panel/u • 16 connection module holders 2U Global/u • 48 Cat. 5e connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	*R505716*

Ordering Information	Description	PU	Part Number
 090.5343	**19" 2U Global Patch Panel 48xRJ45/s, Cat. 5e** Scope of supply: • 19" 2U Global patch panel/s • 16 connection module holders 2U Global/s • Grounding system • 48 Cat. 5e connection modules, RJ45/s incl. EMC covers and dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	*R505715*
090.3101	**19" 2U Global Patch Panel 48-Port/s** • Holds up to sixteen 2U Global/s connection module holders or 2U Global blind covers • Max. capacity of 48 RJ45/s connection modules Scope of supply: • 19" 2U Global patch panel/s • Grounding system • 19" mounting kit • Installation instructions		
	Empty	1	*R503806*
090.3103	**19" 2U Global Patch Panel 48-Port/u** • Holds up to sixteen 2U Global/u connection module holders or 2U Global blind covers • Max. capacity of 48 RJ45/u connection modules Scope of supply: • 19" 2U Global patch panel/u • 19" mounting kit • Installation instructions		
	Empty	1	*R503805*
 090.3102	**Connection Module Holder 2U Global/s** • To be mounted into 19" 2U Global patch panels, shielded. Holding capacity: • 3 connection modules RJ45/s Scope of supply: • Connection module holder • Integrated grounding plate • Labeling strip		
		1	*R503813*

Ordering Information	Description	PU	Part Number
 090.3104	**Connection Module Holder 2U Global/u** • To be mounted into 19" 2U Global patch panels, unshielded Holding capacity: • 3 connection modules RJ45/u Scope of supply: • Connection module holder • Labeling strip	1	*R504610*
020.0045	**Labeling Sheet 2U Global** • Suitable for laser printers • Material: paper, white, perforated Scope of supply: • A4 sheet with 75 strips (neutral)	1	R503380
090.3100	**Blind Cover 2U Global** • For use with 19" 2U Global patch panels, shielded and unshielded	1	R316871

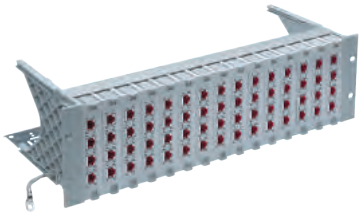
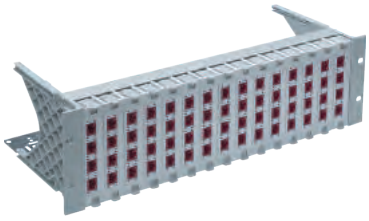
3U Global Patch Panels 48-Port and 60-Port

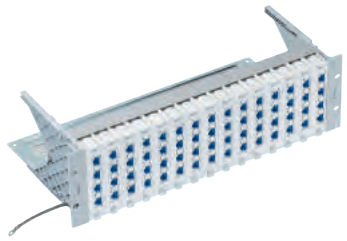
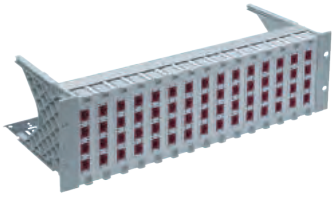
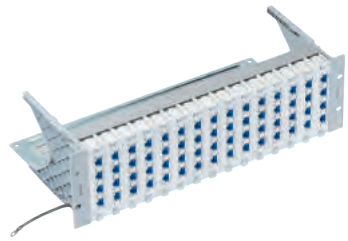
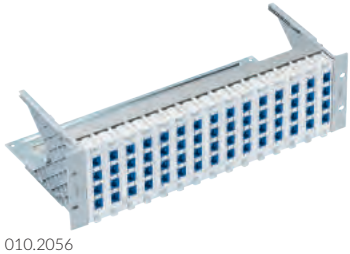
010.2057

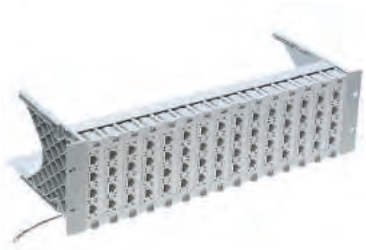
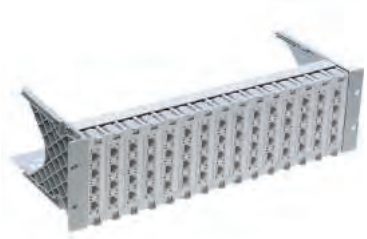
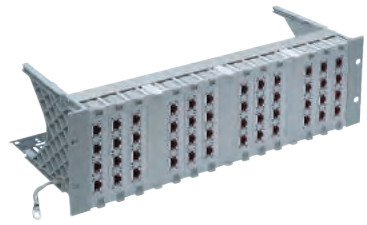
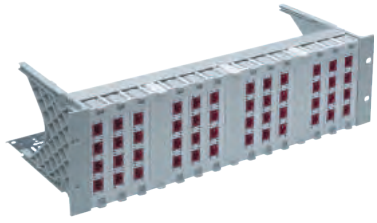
Features

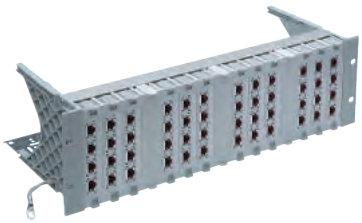
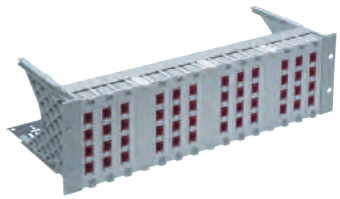
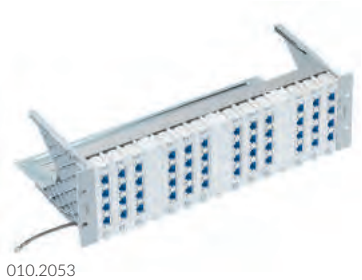
- Thanks to their modular design the panels can be fitted with up to fifteen 4x1-port connection module holders or blind elements (max. 60xRJ45/u, RJ45/s, SC-RJ or E-2000™-Compact ports)
- Highly installation and service friendly thanks to the snap-and-go fastening system
- Shielded version includes complete integrated grounding system
- Suitable for the Data Safe Lock coding system
- Coax can be integrated by means of adapter units
- Exchangeable labeling strips
- Cable tie shelf is a standard component

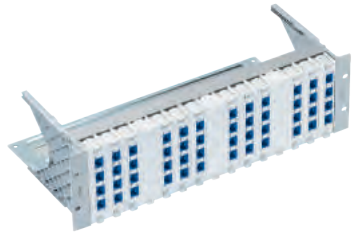
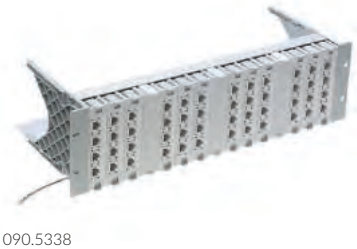
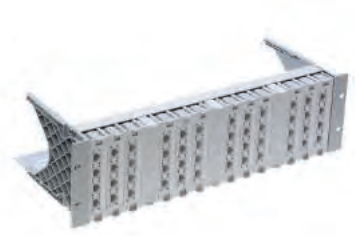
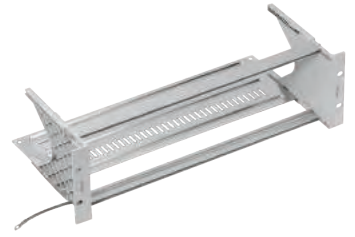
[1)] Approval: UL

Ordering Information	Description	PU	Part Number
 090.5371	**19" 3U Global Patch Panel 60xRJ45/s, Cat. 6_A EL, fully populated** Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • 15 connection module holders Global/s • Grounding system • 60 Cat. 6_A EL connection modules, RJ45/s incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Shielded		R813535
 090.5373	**19" 3U Global Patch Panel 60xRJ45/u, Cat. 6_A EL, fully populated** Scope of supply: • 19" 3U Global patch panel/u incl. cable tie shelf • 15 connection module holders Global/u • 60 Cat. 6_A EL connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Unshielded		R813536

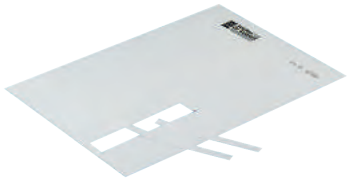
Ordering Information	Description	PU	Part Number
 090.5371	**19" 3U Global Patch Panel 60xRJ45/s, Cat. 6_A ISO** Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • 15 connection module holders Global/s • Grounding system • 60 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	R509890
 090.5373	**19" 3U Global Patch Panel 60xRJ45/u Cat. 6_A ISO** Scope of supply: • 19" 3U Global patch panel/u incl. cable tie shelf • 15 connection module holders Global/u • 60 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Fully populated	1	R509891
 010.2052	**19" 3U Global Patch Panel 60xRJ45/s, Real10 Cat. 6** Scope of supply: • 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 [1)]	1	R302362
 010.2056	**19" 3U Global Patch Panel 60xRJ45/u, Cat. 6** Scope of supply: • 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		
	Fully populated [1)]	1	*R302363*

Ordering Information	Description	PU	Part Number
 090.5340	**19" 3U Global Patch Panel 60xRJ45/s, Cat. 5e** Scope of supply: • 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 [1)]	1	R35406
 090.5339	**19" 3U Global Patch Panel 60xRJ45/u, Cat. 5e** Scope of supply: • 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 [1)]	1	*R35407*
 090.5370	**19" 3U Global Patch Panel 48xRJ45/s, Cat. 6_A EL, partly populated** Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • 12 connection module holders Global/s • 3 Global blind covers • Grounding system • 48 Cat. 6_A EL connection modules, RJ45/s incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Shielded		R813537
 090.5372	**19" 3U Global Patch Panel 48xRJ45/u, Cat. 6_A EL, partly populated** Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • 12 connection module holders Global/s • 3 Global blind covers • Grounding system • 48 Cat. 6_A EL connection modules, RJ45/s incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Unshielded		R813539

Ordering Information	Description	PU	Part Number
 090.5370	**19" 3U Global Patch Panel 48xRJ45/s, Cat. 6_A ISO** Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • 12 connection module holders Global/s • 3 Global blind covers • Grounding system • 48 Cat. 6_A ISO connection modules, RJ45/s incl. EMC covers and dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Partly populated	1	R509888
 090.5372	**19" 3U Global Patch Panel 48xRJ45/u, Cat. 6_A ISO** Scope of supply: • 19" 3U Global patch panel/u incl. cable tie shelf • 12 connection module holders Global/u • 3 Global blind covers • 48 Cat. 6_A ISO connection modules, RJ45/u incl. dust covers • Labeling strips • 19" mounting kit • Cable ties • Installation instructions		
	Partly populated	1	R509889
 010.2053	**19" 3U Global Patch Panel 48xRJ45/s, Real10 Cat. 6** Scope of supply: • 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	1	*R302360*

Ordering Information	Description	PU	Part Number
 010.2057	**19" 3U Global Patch Panel 48xRJ45/u, Cat. 6** Scope of supply: • 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		
	Partly populated	1	*R302361*
 090.5338	**19" 3U Global Patch Panel 48xRJ45/s, Cat. 5e** Scope of supply: • 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*
 090.5337	**19" 3U Global Patch Panel 48xRJ45/u, Cat. 5e** Scope of supply: • 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		
	Partly populated	1	*R35405*
 010.2054	**19" 3U Global Patch Panel 60-Port/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 Scope of supply: • 19" 3U Global patch panel/s incl. cable tie shelf • Grounding system • 19" mounting kit • Installation instructions		
	Empty [1)]	1	R35408

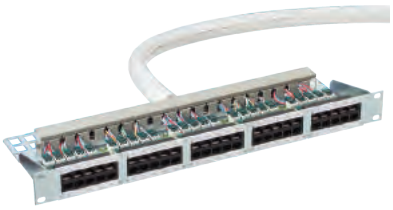
Ordering Information	Description	PU	Part Number
010.2055	**19" 3U Global Patch Panel 60-Port/u** • Holds up to fifteen Global/u connection module holders, Global blind covers or six Global adapter units • Max. capacity of 60 RJ45/u connection modules Scope of supply: • 19" 3U Global patch panel/u incl. cable tie shelf • 19" mounting kit • Installation instructions		
	Empty [1)]	1	R35409
010.1183	**Connection Module Holder 3U Global/s** • To be mounted into 19" 3U Global patch panels, shielded Holding capacity: • 4 connection modules RJ45/s Scope of supply: • Connection module holder • Integrated grounding plate • Labeling strip • Installation instructions		
	1 GU [1)]	1	*R35402*
010.1181	**Connection Module Holder 3U 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 Scope of supply: • Connection module holder • Labeling strip • Installation instructions		
	1 GU [1)]	1	*R35403*
090.2040	**Voice Adapter 3U 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 Scope of supply: • Global Voice Adapter • 4 labeling strips		
	3x10-Port, 3 GU	1	R310400

Ordering Information	Description	PU	Part Number
 020.0045	**Labeling Sheet Fiberliner / 3U Global Module Holder** • For the labeling of front plates and 19" insertions • Dimensions: A4 • Material: paper, white, perforated Scope of Supply: • Fiberliner and 3U Global module holder labeling sheet (50 strips without logo)	10	R30871
010.1180	**Blind Cover 3U Global** • For use with 19" 3U Global patch panels, shielded and unshielded **1 GU** [1)]	1	R35401

Voice Panel, Empty

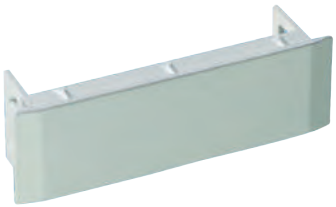
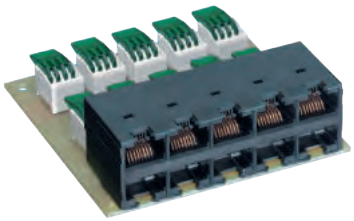
Features

- 19" 1U voice panel with up to 50 RJ45/u ports
- Label holder with exchangeable labeling strips
- Cable guide for optimum pair routing
- Prepared for grounding connection



030.0440

[1] Approval: UL

Ordering Information	Description	PU	Part Number
020.0725.1	**19" 1U Patch Panel 50-Port** • With a holding capacity of 5 connection modules 10xRJ45/u Scope of supply: • 19" 1U (84HP) patch panel, powder-coated, gray • 19" mounting kit • 10 labeling strips • Instruction manual		
	Empty [1]	1	*R35115*
 020.0721	**Blind Cover 1x10-Port, light gray** • To cover one unused port on the voice panel		
		10	*R35117*
 020.0717	**Connection Module 10xRJ45/u (4-5, 3-6)** • Connection module with 10 unshielded RJ45 ports • Tool-free “Easy Lock” termination technique		
		10	*R35116*

Wiring chart see specifications RJ45 voice connection modules

Accessories
19" Patch Panels

042.0007

090.6722

Features

- R&M Logo: Red/white printing for black version
- R&M Logo: Red/black printing for gray version
- High quality ABS rounded cable management fingers
- Optimized design for high density patching
- Interlocked metal plate and plastic fingers ensuring smooth and edge free surfaces
- Fixing of plastic cable management fingers on outside ensuring ultimate stability
- Textured hinges provide grip to facilitate opening and closing of front cover
- Top and bottom hinges at different width position for stability
- Black version: 19" plate full, ideal for DC (controlled air flow)
- Gray version: 19" plate with patch through openings, ideal for office cabling
- Compatible with existing R&Mfreenet products

[1] Approval: UL

Ordering Information	Description	PU	Part Number
042.0007 042.0025	**19" Closed Cable Management (with patch through openings)** • 19" cable management with front cover • 19" mounting set		
	Gray (1U), 75 mm, recessed	1	*R795628*
	Gray (1U), 110 mm	1	*R795638*
	Black (1U), 110 mm	1	*R795519*
	Gray (2U), 110 mm	1	*R795453*
090.6722 030.5712	**19" Closed Cable Management** • 19" cable management with front cover • 19" mounting set		
	Black (1U), 75 mm, recessed	1	*R795627*
	Black (1U), 110 mm	1	*R795375*
	Black (2U), 110 mm	1	*R795452*
	Black (2U), 75 mm recessed	1	*R795791*
	Customization with logo available		
090.2325	**19" 1U Cable Management 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 quick mounting Scope of supply: • 19" 1U plastic panel • 4 plastic rings, gray • 19" mounting kit		
	70 mm plastic ring [1]	1	*R306179*

Ordering Information	Description	PU	Part Number
090.2324	**19" 2U Cable Management 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 quick mounting Scope of supply: • 19" 2U plastic panel • 8 plastic ring, gray • 19" mounting kit		
	70 mm plastic ring [1)]	1	*R306180*
010.2183	**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) Scope of supply: • Lateral radius guard, left • Lateral radius guard, right • Velcro fastening 19 x 400 mm		
	Left and right	1	R306181
	19" mounting holes distance 1U		
010.0934.1	**Universal Blind Cover** • To cover one unused connection module port • Snaps into R&M Smartholes • Color: light gray (NCS 1005-R80B)		
	Light gray	100	R305766
	Pure white	100	*R925719*
010.2949	**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*
	Also suitable for 19" 1U patch panels, 24xRJ45		

Ordering Information	Description	PU	Part Number
090.3259 090.2624	**Global Cable Management, 70mm** • For vertical cable management with the Global 2U/3U patch panel • Fast installation - slides under Global 2U/3U panel mounting screws • Flexible - mounts on left or right outside of panel • Saves space through higher port densities		
			2-ring
	Plastic ring	1	R505851
	Metal ring	1	R503228
			3-ring
	Plastic ring	1	R316247
	Metal ring	1	R503227
042.0026	**Velcro Tape, 5.0m** • For bundling and fixating pressure-sensitive data and fiber optic cables		
		1	*R795680*

Patch Cord Cat. 6_A EL

010.2038.1

Features

- Compliant with Cat. 6_A ISO, Class EA (500 MHz) requirements: ISO/IEC 11801 ed. 2.2
- Complies with Category 6_A ISO requirements of the standard ISO/IEC 11801 ed. 2.2: June 2011
- Complies with Category 6_A ISO requirements of the standard TIA 568-C.2
- Compliant with Cat. 6_A ISO component standards IEC 60603-7-41

Ordering Information	Description	PU	Part Number

030.5654

Patch Cord EL Cat. 6_A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s

- Cable identification: U/FTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: AL/foil
- Overall screen: no
- Outer diameter: max. 6.5 mm
- Boot color: white

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue	Orange	Black
0.5m	10	R831821	R834163	R834169	R834175	R834181	R837725	R837733
1.0m	10	*R830749*	R830765	R830757	R830753	R830761	R830769	R830773
1.5m	10	R830823	R834164	R834170	R834176	R834182	R837727	R837734
2.0m	10	*R830750*	R830766	R830758	R830754	R830762	R830770	R830774
3.0m	10	*R830751*	R830767	R830759	R830755	R830763	R830771	R830775
5.0m	10	R830752	R830768	R830760	R830756	R830764	R830772	R830776
7.5m	10	R831822	R834165	R834171	R834177	R834183	R837729	R837735
10.0m	10	R831823	R834166	R834172	R834178	R834184	R837730	R837736
12.5m	5	R831824	R834167	R834173	R834179	R834185	R837731	R837737
15.0m	5	R831825	R834168	R834174	R834180	R834186	R837732	R837738

090.5654

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

- Cable identification: U/UTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: max. 6.5 mm
- Boot color: white

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue	Orange	Black
0.5m	10	R834187	R834192	R834198	R834204	R834210	R837739	R837745
1.0m	10	R830779	R830809	R830801	R830784	R830805	R830813	R830817
1.5m	10	R830824	R834193	R834199	R834205	R834211	R837740	R837746
2.0m	10	*R830780*	R830810	R830802	R830798	R830806	R830814	R830818
3.0m	10	*R830781*	R830811	R830803	R830799	R830807	R830815	R830819
5.0m	10	R830783	R830812	R830804	R830800	R830808	R830816	R830820
7.5m	10	R834188	R834194	R834200	R834206	R834212	R837741	R837747
10.0m	10	R834189	R834195	R834201	R834207	R834213	R837742	R837748
12.5m	5	R834190	R834196	R834202	R834208	R834214	R837743	R837749
15.0m	5	R834191	R834197	R834203	R834209	R834215	R837744	R837750

Patch Cord Cat. 6 EL

010.2038.1

Features

- Compliant with Cat. 6, Class E (250 MHz) requirements: ISO/IEC 11801 ed. 2.2
- Compliant with Cat. 6 component standard IEC 60603-7-4
- Compliant with Cat. 6 component standard IEC 60603-7-5

Ordering Information	Description	PU	Part Number

030.5654

Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s

- Able identification: U/FTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: AL/foil
- Overall screen: no
- Outer diameter: max. 6.5 mm
- Boot color: white

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue	Orange	Black
0.5m	10	R834216	R834221	R834227	R834233	R834239	R837618	R837624
1.0m	10	R830557	R830707	R830698	R830694	R830702	R830711	R830715
1.5m	10	R830821	R834222	R834228	R834234	R834240	R837619	R837625
2.0m	10	R830691	R830708	R830699	R830695	R830703	R830712	R830716
3.0m	10	R830692	R830709	R830700	R830696	R830704	R837618	R830717
5.0m	10	R830693	R830710	R830701	R830697	R830705	R830714	R830718
7.5m	10	R834217	R834223	R834229	R834235	R834241	R837620	R837626
10.0m	10	R834218	R834224	R834230	R834236	R834242	R837621	R837627
12.5m	5	R834219	R834225	R834231	R834237	R834243	R837622	R837628
15.0m	5	R834220	R834226	R834232	R834238	R834244	R837623	R837629

030.5654

Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u

- Cable identification: U/UTP
- Outer jacket: PVC
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: max. 4.7 mm
- Boot color: white

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue	Orange	Black
0.5m	10	R831818	R834245	R834251	R834257	R834263	R837630	R837636
1.0m	10	R830719	R830735	R830727	R830723	R830731	R830739	R830743
1.5m	10	R830822	R834246	R834252	R834258	R834264	R837631	R837637
2.0m	10	*R830720*	R830736	R830728	R830724	R830732	R830740	R830744
3.0m	10	*R830721*	R830737	R830729	R830725	R830733	R830741	R830745
5.0m	10	R830722	R830738	R830730	R830726	R830734	R830742	R830748
7.5m	10	R830959	R834247	R834253	R834259	R834265	R837632	R837638
10.0m	10	R830960	R834248	R834254	R834260	R834266	R837633	R837639
12.5m	5	R831819	R834249	R834255	R834261	R834267	R837634	R837640
15.0m	5	R831820	R834250	R834256	R834262	R834268	R837635	R837641

RJ45 Patch Cord Cat. 6_A ISO

090.5390

Features

- Cat. 6_A ISO allow transmission frequencies of ≥ 650 MHz
- 100 Ohm impedance
- Available in shielded and unshielded versions
- Compliant with Cat. 6_A ISO, Class EA (500 MHz) requirements: ISO/IEC 11801.2.1 e.d. 2.2
- Compliant with Cat. 6_A ISO component standards IEC 60603-7-41 (unshielded) or 60603-7-51 (shielded)
- Connection 1:1

Ordering Information	Description	PU	Part Number

090.5391

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

- 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

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue
0.5m	10	R509857	R807860	R802635	R807829	R807831
1.0m	10	R509858	R807534	R802636	R807533	R802097
1.5m	10	R509860	R802653	R802637	R802113	R802258
2.0m	10	R509861	R802219	R802638	R802114	R802260
3.0m	10	R509862	R802656	R802640	R802174	R802262
5.0m	10	R509863	R802657	R802642	R802175	R802267
7.5m	10	R509864	R806498	R807824	R807638	R807832
10.0m	10	R509865	R805328	R807825	R802177	R805329
12.5m	5	R509866	R807861	R807826	R807830	R807833
15.0m	5	R509867	R805523	R807827	R802181	R807834
20.0m	5	R509868	R807862	R807828	R807643	R807835

090.5391

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

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

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue
0.5m	10	R509869	R806299	R806304	R809255	R802964
1.0m	10	R509870	R808869	R808052	R802024	R808053
1.5m	10	R509871	R806300	R806305	R809592	R808867
2.0m	10	R509872	R806301	R806306	R807941	R807940
3.0m	10	R509873	R808430	R808868	R802025	R802965
5.0m	10	R509874	R806302	R806307	R802027	R808420
7.5m	10	R509875	R808431	R811467	R811463	R808419
10.0m	10	R509876	R806303	R806308	R802029	R808423
12.5m	5	R509877	R811471	R811468	R811464	R811461
15.0m	5	R509878	R811472	R811469	R811465	R808421
20.0m	5	R509879	R811473	R811470	R811466	R808422

RJ45 Patch Cord Cat. 6

010.2038

Features

- Cat.6 U/UTP 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 ed 2.2
- 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 Real10 Cat. 6, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s

- Cable identification: S/FTP
- Outer jacket: LSFRZH
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: AL/foil
- Overall screen: copper braid
- Outer diameter: 6.2 mm

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue
0.5m	10	R302331	R316221	R800554	R315640	R313818
1.0m	10	*R302332*	R313322	R313321	R313180	R312677
1.5m	10	R302333	R315205	R800652	R312253	R312678
2.0m	10	*R302334*	R312052	R312053	R312051	R312054
3.0m	10	*R302335*	R312056	R312057	R312055	R312058
5.0m	10	R302336	R312059	R312060	R312042	R312061
7.5m	10	R302337	R316222	R800516	R800515	R316350
10.0m	10	*R302338*	R314766	R315158	R312254	R316351
12.5m	5	R302339	R320897	R806809	R806810	R320900
15.0m	5	*R302340*	R316223	R314731	R312266	R317970
20.0m	5	*R302418*	R800099	R806808	R805842	R800006

010.2076

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

- Cable identification: U/UTP
- Outer jacket: LSZH
- Conductor diameter copper strand: AWG 26/7
- Screened in pairs: no
- Overall screen: no
- Outer diameter: 6.0 mm
- Color: Green (RAL 6029), Red (RAL 3031)
  Yellow (RAL 1021), Blue (RAL 5015)

Other colors available on request

	PU	Gray	Green	Red	Yellow	Blue
0.5m	10	R302309	R801994	R321244	R801492	R802966
1.0m	10	*R302310*	R311941	R311928	*R311935*	*R311938*
1.5m	10	R302311	R317211	R315541	R314914	R317004
2.0m	10	*R302312*	R313970	R311932	*R313866*	*R313969*
3.0m	10	*R302313*	R311942	R311933	*R311936*	*R311939*
5.0m	10	*R302314*	R311943	R311934	*R311937*	R311940
7.5m	10	R302315	R321112	R316648	R800818	R316064
10.0m	10	*R302316*	R313872	R322650	R800466	R313869
12.5m	5	R302317	R801697	R801689	R801683	R801694
15.0m	5	*R302318*	R800910	R800816	R800819	R800822
20.0m	5	*R302319*	R810292	R801692	R801686	R813395

RJ45 Patch Cord Cat. 5e

010.2038.1

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 568-C.2
- With R&M RJ45 connectors in acc. with IEC 60603-7 series
- Connection 1:1

Ordering Information	Description	PU	Part Number
010.2040	**Patch Cord Cat. 5e, U/UTP, 4P, PVC, RJ45/u-RJ45/u** • 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
010.2040	**Patch Cord Cat. 5e, SF/UTP, 4P, LSFRZH, RJ45/s-RJ45/s** • 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

Ordering Information	Description	PU	Part Number
090.2372	**Patch Cord Real10 Cat. 6, S/FTP, 4P, PUR, green, RJ45/s IP20-RJ45/s IP20** • Patch cords equipped with PUR jackets, ideal for use in harsh environments • Both sides fitted with RJ45/s IP20 connector		
	2.5 m	5	R313633
	5.0 m	5	R313634
	10.0 m	5	R313632
090.2374	**Patch Cord Real10 Cat. 6, S/FTP, 4P, PUR, green, RJ45/s IP67, type 06-RJ45/s IP20** • Patch cords equipped with PUR jackets, ideal for use in harsh environments • Fitted with one RJ45/s IP67 connector inclu. protective cap and one RJ45/s IP20 connector		
	2.5 m	5	R313637
	5.0 m	5	R313638
	7.0 m	5	R313639
	10.0 m	5	R313636
090.2373	**Patch Cord Real10 Cat. 6, S/FTP, 4P, PUR, green, RJ45/s IP67, type 06-RJ45/s IP67 type 06** • Patch cords equipped with PUR jackets, ideal for use in harsh environments • Both sides fitted with RJ45/s IP67 connector inclu protective cap		
	2.5 m	5	R313641
	5.0 m	5	R313642
	7.0 m	5	R313643
	10.0 m	5	R313640

Trunk Cable Loomed

090 5865

Features

- Fast and safe installation (plug and play)
- 100% process inspection
- Numbered fan-out legs
- Length AWG23 from 5 to 80 m, AWG26 from 5 to 55 m
- AWG26 up to 30% volume and weight reduction compared to AWG23
- Exceeds requirements specified by standards IEEE 802.3an and ISO/IEC 11801 ed.2002 adm. 1 Class EA
- Exceeds Cat. 6_A ISO Class EA (500 MHz); ISO/IEC 11801 ed. 2.2
- Dust protection of connection modules during transport and insertion tool with integral pulling device for installation

Different lengths and configurations on request

Ordering Information	Description	PU	Part Number
090.7182	**Trunk Cable Loomed, Cat. 7, 6x4P, 900MHz, module Cat. 6_A EL RJ45/s - module Cat. 6_A EL RJ45/s** • Wiring diagram: TIA 568-A. Leg length: 20 cm. • Cable identification: S/FTP. Outer jacket: LSZH. • Conductor diameter: AWG23/1 (solid wire). • Screened in pairs: AL/polyester foil. • Verall screen: copper braid. • Outer diameter: 22.1 mm.		
	15 m	1	R813793
090.5865	**Trunk Cable Loomed, Cat. 7, 6x4P, 900MHz, module Cat. 6_A RJ45/s - module Cat. 6_A RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG23/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 22.1 mm		
	7.5 m	1	R803895
090.5869	**Trunk Cable Loomed, Cat. 7, 6x4P, 900MHz, module Cat. 6 RJ45/s - module Cat. 6 RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG23/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 22.1 mm		
	7.5 m	1	R803894

Ordering Information	Description	PU	Part Number
090.5865	**Trunk Cable Loomed, Cat. 6_A, 6x4P, 650MHz, module Cat. 6_A RJ45/s - module Cat. 6_A RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG26/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 16.4 mm		
	7.5 m	1	R803891
090.5869	**Trunk Cable Loomed, Cat.6, 6x4P, 650MHz, module Cat. 6 RJ45/s - module Cat. 6 RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG26/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 16.4 mm		
	7.5 m	1	R803888
090.7183	**Trunk Cable Compact, Cat. 7, 6x4P, 900MHz, module Cat. 6_A EL RJ45/s - module Cat. 6_A EL RJ45/s, 15.0 m** Scope of supply: • Wiring diagram: TIA 568-A. • Leg length: 20 cm. • Cable identification: S/FTP. • Outer jacket: LSZH. • Conductor diameter: AWG23/1 (solid wire). • Screened in pairs: AL/polyester foil. • Overall screen: copper braid. • Outer diameter: 25.0 mm.		
	7.5 m	1	R813792

Ordering Information	Description	PU	Part Number
090.5862	**Trunk Cable Compact, Cat. 7, 6x4P, 900MHz, module Cat. 6_A RJ45/s - module Cat. 6_A RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG23/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 25.0 mm		
	7.5 m	1	R803893
090.5874	**Trunk Cable Compact, Cat. 7, 6x4P, 900MHz, module Cat. 6 RJ45/s - module Cat. 6 RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG23/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 25.0 mm		
	7.5 m	1	R803892
090.5862	**Trunk Cable Compact, Cat. 6_A, 6x4P, 650MHz, module Cat. 6_A RJ45/s - module Cat. 6_A RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG26/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 19.2 mm		
	7.5 m	1	R803887
090.5874	**Trunk Cable Compact, Cat. 6, 6x4P, 650MHz, module Cat. 6 RJ45/s - module Cat. 6 RJ45/s** • Wiring diagram: EIA/TIA 568A • Leg length: 20 cm • Cable identification: S/FTP • Outer jacket: LSZH • Conductor diameter: AWG26/1 (solid wire) • Screened in pairs: AL/polyester foil • Overall screen: copper braid • Outer diameter: 19.2 mm		
	7.5 m	1	R803885

Adapters

The DRM adapter has been specifically developed to ensure convenient integration of data technology into 35 mm 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 interation of system components.

090.2457

Ordering Information	Description	PU	Part Number
090.2390	**DIN Rail Module DRM45, plastic** • DIN Rail Module DRM45 for one RJ45 port, SC-RJ or E-2000™ Compact • Color: light gray (RAL 7035) • Material: plastic (PC-GF10) Scope of supply: • DIN Rail Module DRM45 • Labeling strip • Instruction manual		
	Empty	10	R314000
	Real10 Cat.6/s	1	R804257
	Suitable for RJ45 connection modules and fiberoptic connectors with support plates.		
090.2103	**TDIN Top-Hat Rail Mounting Plate 85x86 mm** Scope of supply: • 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		
		1	R311160
	For the following outlets: R315798, R316478, R315799, R307038 and R307039.		

Compact Box Surface-Mounted

042.158

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 UL 94: V-0
- Not compatible with Cat. 6_A ISO Connection Modules

Ordering Information	Description	PU	Part Number
042.155 042.150	**Surface Mount Box 1 Port KS shuttered** Scope of supply: • Housing bottom part • Housing top part • Cable tie		
	Black	1	R795868
	Black, with magnet	1	R795864
	Off-white	1	R795821
	Off-white with magnet	1	R795860
	Suitable for RJ45 connection modules and fiber optic connectors with keystone adapter.		
042.156 042.151	**Surface Mount Box 2 Port KS shuttered** Scope of supply: • Housing bottom part • Housing top part • Cable tie		
	Black	1	R795869
	Black, with magnet	1	R795865
	Off-white	1	R795822
	Off-white with magnet	1	R795861
	Suitable for RJ45 connection modules and fiber optic connectors with keystone adapter.		
042.157 042.153	**Surface Mount Box 4 Port KS shuttered** Scope of supply: • Housing bottom part • Housing top part • Cable tie		
	Black, with magnet	1	R795866
	Off-white with magnet	1	R795862
	Suitable for RJ45 connection modules and fiber optic connectors with keystone adapter.		

Ordering Information	Description	PU	Part Number
042.158 042.154	**Surface Mount Box 6 Port KS shuttered** Scope of supply: • Housing bottom part • Housing top part • Cable tie		
	Black, with magnet	1	R795867
	Off-white with magnet	1	R795870
	Suitable for RJ45 connection modules and fiber optic connectors with keystone adapter.		
010.2855 	**Compact Housing** • Plastic: PC/ABS Scope of supply: • Bottom part • Top part • 3 module holders 2xRJ45 • 6 cable ties • 2 fastening screws		
	6x1-Port, pure white [1)]	1	R308971
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates.		
042.0003 	**Mini Surface Mount Box** • Plastic: PC + ABS • Housing bottom part • Housing top part • Label strips, blank • Installation manual		
	4x1-Port	1	R795111
	4x1-Port with magnet	1	R795078

FM Global Outlets Flush-Mounted

090.2084

Features

- Suitable for flush-mounted (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 min. 70 mm
- Plastic: PC + ABS, halogen-free

Ordering Information	Description	PU	Part Number
090.2086	**FM Global Outlet 88x88** • Plastic: PC/ABS Scope of supply: • Cover frame 88x88 mm • 2-part faceplate 60x60 mm • M3x12 screws • Blind cover (when used as a 1-port outlet) • Mounting plate, steel • Labeling strips, blank		
	2x1-Port, pure white	10	R310788
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates		
010.2902	**FM Global Outlet 88x88** • Plastic: PC+ABS, halogen-free Scope of supply: • Cover frame 88x88 mm, pure white • 4-part faceplate 60x60 mm • M3x12 screws • Mounting plate, steel • Labeling strip, blank		
	4x1-Port, pure white	10	R305150
	Suitable for RJ45 special connection module		

503 Outlets
Flush-Mounted

010.1001

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
090.5469	**503 Outlet 118x72** • Plastic: PC, PC/ABS Scope of supply: • Faceplate, type 503, holding RJ45 ports • Blind cover (when used as a 1-port outlet) • Label strips, blank		
	2x1-Port, pure white	10	R510839
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates		
010.2024	**503 Outlet 118x72** • Plastic: PC, PC/ABS Scope of supply: • 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
	Suitable for RJ45 special connection module		

BS Faceplates Flush-Mounted

042.0000

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
042.0000	**BS Faceplate 86x86, 2x1 port, white** • Plastic: PC/ABS Scope of supply: • Faceplate 86x86 mm for 2 RJ45 ports, including fastening screws • Blind cover (when used as a 1 port outlet) • Label strips		
	2x1-Port, white	1	*R795068*
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates		
042.0002	**BS Faceplate 86x86, 4x1 port, white** • Plastic: PC/ABS Scope of supply: • Faceplate 86x86 mm for 4 RJ45 ports, including fastening screws • 2 Label strips		
	4x1-Port, white	1	*R795070*
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates		

Flap Jack Module Holder (Type 6C) Flush-Mounted

010.2041

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
010.2018	**Module Holder Flap Jack (Type 6C)** • Plastic: PC Scope of supply: • Flap Jack Module Holder • Instructions manual		
	1-Port, pure white	20	R303155
	Only for RJ45/u special connection modules (R305114, R305112) and Flap Jack connection modules		
010.2139	**Mounting Plate Flap Jack 86x86** • Plastic: PC		
	2x1-Port, pure white	20	R303154
042.0023	**Cover Frame 86x86** • 50x50mm cutout for two faceplates/blind covers		
	2x1-port, pure white		R795710
042.0020	**Face Plate 25x50** • Plastic ABS		
	1-Port, pure white		R795711

Ordering Information	Description	PU	Part Number
042.0022 042.0021	**Blind cover** • Plastic: ABS		
	12.5x50, 0.5-port		R795713
	25x50, 1-port		R795712

Shuttered "Fascia" Flush-Mounted

010.0904.1

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
020.0996	**Cover Frame "Fascia" 86x86** • 50x50 mm cutout for two face plates/blind covers • Plastic: ABS		
	2x1-Port, pure white	20	R925895
010.0951	**Blind Cover "Fascia" 25x50** • Plastic: ABS		
	1-Port, pure white	20	R925842
	Suitable for RJ45 connection modules and fiberoptic connectors with support plates		
020.0997	**Blind Cover "Fascia" 25x50** • Plastic: ABS		
	1-Port, pure white	40	R925897

US Faceplates Flush-Mounted

010.2029

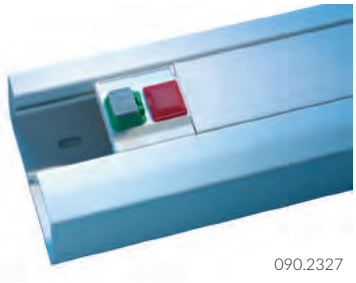
Features

- 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

[1] Approval: UL

Ordering Information	Description	PU	Part Number
090.5468	**US Style Faceplate 72x117.5** • Plastic: PC/ABS Scope of supply: • US style faceplate for 2 RJ45 ports • Blind cover (when used as a 1-port outlet) • Label strips, blank		
	2x1-Port, pure white [1]	10	R510838
	Suitable for RJ45 connection modules, connection module ISDN 2xRJ45 and fiberoptic connectors with support plates		
010.1274	**US Style Faceplate 72x117.5** • Plastic: PC Scope of supply: • US style faceplate • Fastening screws • Hidden screws • 6xRJ45 module holder • 2 label strips, blank		
	6x1-Port, pure white [1]	10	R925822
	Suitable for RJ45 connection modules and fiberoptic connectors with support plates		
020.1000	**US Style Mounting Box** • Base plate: plastic, PC-GF10 • Housing: plastic, PC Scope of supply: • Base plate • Surface-mount housing		
	Pure white [1]	10	R925824

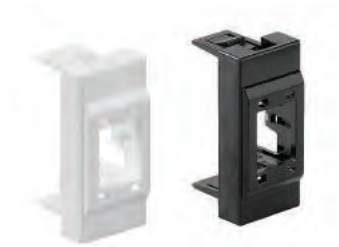
US Faceplates
Duct-Mounted



090.2327

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
 010.2575	**Mounting Plate 22.5x45** Scope of supply: • Faceplate 22.5x45 mm, flat • Module holder for one RJ45 connection module		
	1-Port, white	10	R307835
	1-Port, black	10	R307837
090.3189	**Mounting Plate 45x45** • Plastic: PC/ABS Scope of supply: • 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		
090.3190	**Angled Mounting Plate 45x45** • Plastic: PC/ABS Scope of supply: • 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	10	R313332
	2x1-Port, jet black	10	R313331
	Suitable for RJ45 connection modules and FO connectors with support plates		

Ordering Information	Description	PU	Part Number
090.2096	**Faceplate Blind 45x45** • Dimensions: 45x45 mm		
	White	1	R307960
	Black	1	R309170

Outlets IP54
Surface and Flush Mounted

090.3001

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 aicd)

Ordering Information	Description	PU	Part Number
010.2266 010.2265	**FM Connection Box Splash Line IP54, 87x87** • Color: pure white (RAL 9010) Scope of supply: • Foam-rubber padded mounting frame • Cover frame • Round central plate including O-ring and fastening screws • Label strips • Label window • Instruction manual		
	2x1-Port, pure white	1	R307037
	2x1-Port, white	1	R307036
010.2264 010.2263	**SM Connection Box Splash Line IP54, 87x87** Scope of supply: • 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

Also mountet on DIN top-hat rail.
Cable glands M20x1.5 (min. IP55) not included.

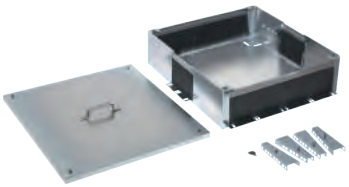
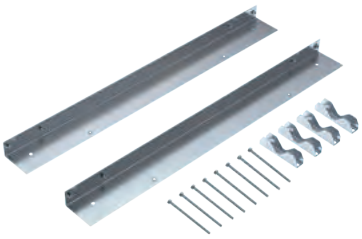
Ordering Information	Description	PU	Part Number	
090.3112	**Splash Cap IP54** • Offering dust protection and color coding to data outlets and patch panels • The cap with its rubber seal provide protection class IP54 Scope of supply: • Splash cap • Rubber seal • Installation manual		**Standard RJ45**	**Universal**
	White	10	R306063	R320410
	Blue	10	R306058	R320411
	Red	10	R306062	R320412
	Yellow	10	R306060	R320414
	Green	10	R306061	R320415
010.2127 090.3111	**Slplash Sleeve IP54** • Elastic, transparent rubber sleeve suitable for all RJ45 patch cords • Together the Splash sleeve and the Splash cap offer protection class IP54			
	Standard RJ45	10	R306064	
	Universal	10	R320385	
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	

Ordering Information	Description	PU	Part Number
042.0018	**Block Module Holder** • 1x1 port for JIS frame	1	*R795107*
010.0934	**Blind Cover Universal** • For covering one unused port on a connection module • Snapped-on instead of a coding system		
	White	100	*R925719*
	Light gray	100	R305766
090.2099	**Adapter No. 1** • For use with different third-party faceplates • Can be fitted with the R&M special connection module	20	R310694
042.0004	**Module Holder for Clipsal Faceplate** • For use with Clipsal 2000 (25 x 25) series faceplates • Compatible with Cat. 5e, Cat. 6 and Cat Cat. 6_A ISO and Cat. 6_A EL connection modules with support plate • R&M logo		
	White	100	R795209
	Black	100	R795721
	Red	100	R795751
	Other colours on request		
042.0028 042.0027	**Module Holder for Third-Party Faceplate, with shutter** • For use with Clipsal 2000 (25 x 25) series faceplates • Compatible with Cat. 5e, Cat. 6 and Cat. 6_A ISO and Cat. 6_A EL connection modules with support plate • With spring shutter		
	White	100	R795602
	Black	100	R795718
	Other colours on request		

Raise Floor Box

The underfloor housing (Raised Floor Box) serves as zone distributor area (ZDA) or consolidation point in data centers. Installed in the raised floor, the housing offers room for 288 connections. The steel housing neatly fits the 600x600 millimeter grid dimensions. This solution has been designed for raised floors in data centers and is therefore advantageous for the space requirements in 19" distribution cabinets.

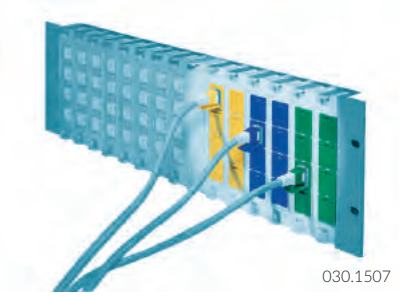
090.5936

Ordering Information	Description	PU	Part Number
 090.5815	**Raised Floor Box, metal** The underfloor housing serves as zone distributor area (ZDA) or consolidation point in data centers. Installed in the raised floor, the housing offers room for 288 connections. The steel housing neatly fits the 600x600 millimeter grid dimensions. Scope of supply: • Steel box IP20 • Keyed cover • 19" integration supported by mounting angles • Velcro tape 20 x 400 mm • Installation instructions		
	179.5x550x580 mm	1	R512692
 090.5814	**Mounting Brackets, Raised Floor Box, metal** For a freely adjustable positioning of the raised floor box in hollow floors of 250 mm and more Scope of supply: • 2 back mount frames for 600 x 600 mm (grid size) • 4 mounting clamps for column holder • 8 mounting screws for column holder • Installation instructions		
		1	R512693

Security Level 1

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.

1) Approval: UL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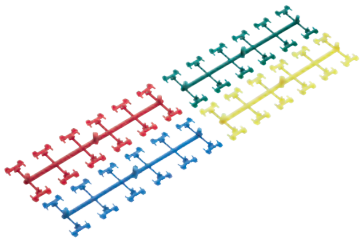
Ordering Information	Description	PU	Part Number
010.1885.1	**Hinged Dust Cover** • Dust cover and color coding for RJ45 outlets and patch panels • Fitting R&M Smartholes		
	Anthracite [1]	10	R305685
	Blue [1]	10	*R305686*
	Brown [1]	10	R305687
	Yellow [1]	10	*R305688*
	Gray [1]	10	*R305689*
	Green [1]	10	R305690
	Red [1]	10	*R305691*
	Violet [1]	10	R305692
	White [1]	10	R305693
010.1696	**Color Coding RJ45 Connector** • Color coding for RJ45 patch cords and consolidation point patch cords.		
	Anthracite [1]	20	*R302342*
	Blue [1]	20	*R302343*
	Brown [1]	20	*R302344*
	Yellow [1]	20	*R302345*
	Gray [1]	20	*R302347*
	Green [1]	20	*R302348*
	Red [1]	20	*R302349*
	Violet [1]	20	*R302420*
090.2713	**Easy Latch RJ45 Connector** • Easy Latch for RJ45 patch cords and consolidation point patch cords		
	Anthracite	20	R317100
	Blue	20	R317094
	Brown	20	R317095
	Yellow	20	R317096
	Gray	20	R317097
	Green	20	R317098
	Red	20	R317099
	Violet	20	R317093

Ordering Information	Description	PU	Part Number
 090.2713	**PC Coding Clip** • Color coding clip for PC Panel		
	Red	1	R810639
	Yellow	1	R812460
	Green	1	R810640
	Blue	1	R812461
	PC Panels can be found on Pg 27 - 28		
090.6147	**HD Hinged Dust Cover** • Dust cover and color coding for HD patch panel		
	Anthracite	10	R512748
	Blue	10	R512749
	Brown	10	R512750
	Yellow	10	R512751
	Gray	10	R512752
	Green	10	R512753
	Red	10	R512754
	Violet	10	R512755
	White	10	R512756
010.1713	**Snap-in Coding Clip** • Color coding clip for snap-in adapters and the multimedia outlet		
	Anthracite	10	R302151
	Blue	10	*R302152*
	Brown	10	R302153
	Green	10	*R302154*
	Red	10	*R302155*
	Violet	10	R302156
	White	10	R302157
	Yellow	10	*R302158*
090.2855	**Color Coding RMS45** • Matching the RMS45 insert and RMS45 plugs, 1- and 2-pair • Four color codings per block		
	Anthracite	10	R319031
	Blue	10	R319024
	Brown	10	R319025
	Yellow	10	R319026
	Gray	10	R319027
	Green	10	R319028
	Red	10	R319029
	Violet	10	R319030

Ordering Information	Description	PU	Part Number
090.2158	**FM45 Color Coding Clip** • Color coding for connector FM45		
	Blue [1)]	10	R311580
	Brown [1)]	10	R311569
	Yellow [1)]	10	R311579
	Gray [1)]	10	R311570
	Green [1)]	10	R311577
	Red [1)]	10	R311571
	Violet [1)]	10	R311575
	Anthracite [1)]	10	R311561
090.2042	**Plug Reduction Frame RJ45 onto 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	10	R310835

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.

1) Approval: UL

Ordering Information	Description	PU	Part Number
010.1880.1	**Plug Guard RJ45** • RJ45 connection protection for outlets and patch panels • Fitting R&M Smartholes Scope of supply: • Plug Guard • 1 key per packing unit		
	Green [1)]	20	R304825
	White [1)]	20	*R304827*
	Red [1)]	20	*R304826*
010.2289	**Jack Guard** • RJ45 plug-in protection for outlets and patch panels • Fits Plug Guard Scope of supply: • Jack Guard • 1 key per packing unit	20	R307199
090.2289	**Key Plug Guard / Fiber Guard** • Key and key-ring to Plug Guard and Fiber Guard	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.		
	[1)]	20	R304807

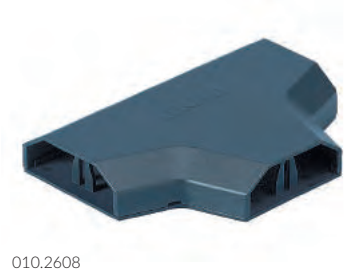
Ordering Information	Description	PU	Part Number
010.3573 090.2288	**Patch Guard RJ45** • Lockable plug-out protection for RJ45 connecting cables (R&M standard patch cables) Scope of supply: • Patch Guard, top part • Patch Guard, bottom part • 1 key per packing unit	20	*R313814*
	Key Patch Guard RJ45 Scope of supply: • Key plus key ring	1	*R313815*
 090.5855	**Port Guard** • RJ45 Connection protection for outlets and patch Scope of Supply: • 20 port guards with 20 key	20	R510854
 090.6148	**HD Plug Guard RJ45** • RJ45 connection protection for HD patch panels Scope of supply: • HD Plug Guard • 1 key per packing unit		
	Green	20	R512757
	White	20	R512758
	Red	20	R512759
 090.6149	**Key HD Plug Guard** • Key to HD Plug Guard	1	R512760

FLEXkanal

010.2730

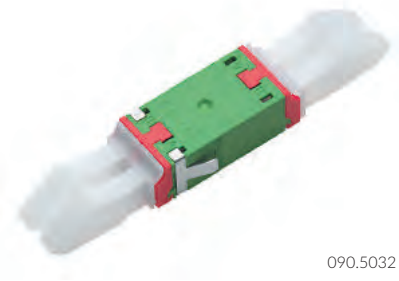
Features
- For an organized and protected cable routing up to your desk
- For connecting deskboxes with cable ducts or floor connection boxes
- Integral cable organization in two channels

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 1 m in extended form		
	Black gray RAL 7021	1	R451000
	Light gray RAL 7035	1	R451002
	White RAL 9010	1	R451003
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 RAL 7016	10	R451008
	2 m, anthracite RAL 7016	10	R451009
 010.2608	**FLEXkanal T-piece** • T-piece junction for workplace branching Scope of supply: • FLEXkanal floor T-piece • FLEXkanal T-piece cover		
	1 m, anthracite RAL 7016	10	R450907
	2 m, anthracite RAL 7016		R450906

Ordering Information	Description	PU	Part Number
090.2194	**Cable Passage Ø 95 with FLEXkanal Link, anthracite** • Cable grommet for use in raised floor featuring FLEXkanal link • Color: anthracite (RAL 7016) • Required-Ø: 95 mm	1	R450911

Adapters LC
LC-Duplex

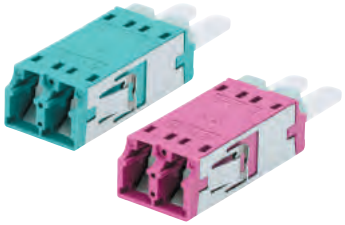
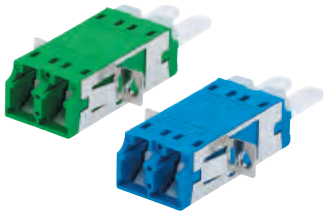


090.5032

Features

- Compact design (SFF)
- Outstanding optical performance
- Twice as many terminations as regular connector types
- Duplex adapter fits in SC Simplex cutout
- Integral self-closing metal laser protection flaps
- Semi-transparent plastic dust cover, allowing optical testing with test lasers without removing the cover

Ceramic = zirconia ceramic alignment sleeve
PhBr = phosphor bronze alignment sleeve

Ordering Information	Description	PU	Part Number
090.7455  090.7453	**Adapter LC-Duplex** Scope of supply: • LC-Duplex adapter flangeless with semi-transparent dust caps • Quick mounting clip integrated • Color coding: adapter / frame - frame		
	PC, blue, ceramic SM, C, flangeless	12	R820419
	PC, beige, ceramic MM, N, flangeless	12	*R820420*
	PC, turquoise, ceramic MM, M, flangeless	12	*R823204*
	PC, heather violet, ceramic MM, M, flangeless	12	*R823206*
090.7322  090.7331	**Adapter LC-Duplex** Scope of Supply: • Adapter LC-Duplex with semi-transparent dust caps • Color coding: adapter / frame - frame • M2 nuts pre-mounted		
	Green, ceramic SM, C	12	R820415
	Blue, ceramic SM, D	12	R820416
	Beige, ceramic MM, N	12	R820417
	Heather violet, ceramic MM, M, screwable	12	R823205
	Turquoise, ceramic MM, M, screwable	12	R823203
090.5888 090.5889	**Universal Adapter LC-Duplex** • Universal adapter equipped with adapter		
	PC, blue, ceramic SM, C	1	R318738
	PC, turquoise, ceramic MM, N	1	R802140
	Only for unshielded platform		

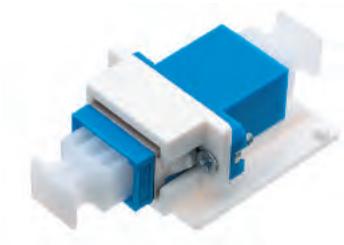
Adapters SC
SC, SC-Duplex, SC-RJ

090.2731

Features

- Injection-molded PBT housing, UL 94 V-0 (flammability index)
- Split ceramic sleeve
- 500 mating cycles

Ceramic = zirconia ceramic alignment sleeve
PhBr = phosphor bronze alignment sleeve

Ordering Information	Description	PU	Part Number
090.6470	**Adapter SC-Duplex flangeless with dust caps** • Quick mounting clip integrated. • Delta insertion loss: ≤ 0.2 dB, testing method acc. to IEC 61300-3-4 • Mating cycles: min. 500 • Pull-out force: min. 70 N (per connector)		
	APC, green, ceramic SM, C, flangeless	12	R821237
	SC-Duplex PC, blue, ceramic SM, C, flangeless	12	*R821236*
	PC, beige, ceramic MM, M, flangeless	12	*R821235*
090.2443	**Adapter SC-Duplex** Scope of supply: • SC-Duplex adapter • 2 Philips head screws M2 x 8, blue galvanized • 2 mounted hexagonal nuts M2, blue galvanized		
	PC, blue, ceramic SM, C	12	R30805
	PC, blue, PhBr SM, D	12	*R306879*
	PC, beige, PhBr MM, N	12	*R303561*
090.2731	**Adapter SC-RJ** Scope of supply: • SC-RJ adapter flangeless with semi-transparent dust caps • Support plate • Installation instructions		
	PC, blue, ceramic SM, C, support plate	12	R318270
	PC, beige, ceramic MM, M, support plate	12	R318268
 090.2878	**Universal Adapter SC** • Universal adapter equipped with adapter		
	PC, blue, ceramic, SM, C	1	R318736
	PC, beige, PhBr MM, N	1	R318737

FO Field SC / LC Connectors

Features
- Tool less assembling
- Fast and secure assembling
- Easy logistic: all cable and tube types with one plug
- Real alternative to splicing
- Re-terminable

090.2434

Ordering Information	Description	PU	Part Number
090.7336	**FO Field LC** • Field-terminable LC connector • Individual packaged incl. stripping chart and QR code with installation instructions • Color green, strain relief pigtail white. • 250µm fibers up to 0.9mm fibers		
	Grade Cf, APC, green, G657.A fiber stub	1	R820787
	Grade Cf, APC, green, G652.D fiber stub	1	R820788
	Grade Cf, PC, blue, G657.A fiber stub	1	R820789
	Grade Cf, PC, blue, G652.D fiber stub	1	R820790
	Grade Bmf, PC, beige, OM4 fiber stub	1	R820791
090.7337	**FO Field SC** Scope of supply: • Field-terminable SC/APC connector, • Individual packaged incl. stripping chart and QR code with installation instructions. • Color green, strain relief pigtail white. • 250µm fibers up to 0.9mm fibers		
	Grade Cf, APC, green, G657.A fiber stub	1	R820792
	Grade Cf, APC, green, G652.D fiber stub	1	R820793
	Grade Cf, PC, blue, G657.A fiber stub	1	R820794
	Grade Cf, PC, blue, G652.D fiber stub	1	R820795
	Grade Bmf, PC, beige, OM4 fiber stub	1	R820796

Please scan the QR Code for more information on FO Field

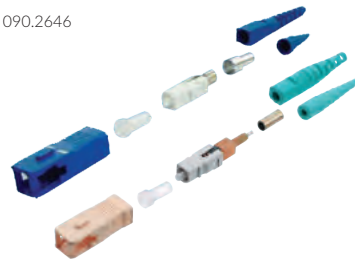
Connector LC/SC/ST Field Termination

090.2435

Features

- Short installation time
- Compatible with customary SC connectors
- For multimode and singlemode applications
- For 0.9 mm to 3 mm cables

The mechanical crimp connectors type ST, SC and LC allow a simple and fast field termination of single fiber cables.

Ordering Information	Description	PU	Part Number
090.2646  090.2435	**Connector Kit SC** • SC field-terminated • Injection-molded PEI housing, UL94 V-0 (flammability index) • Field polish		
	PC, SM, blue, C, 125.5, 0.9 + 2.8 mm tube	10	*R795103*
	PC, MM, beige, M, 127, 0.9 + 2.8 mm tube	10	*R795123*
090.6523 090.6524	**Connector LC PC** Locking type push-pull. Injection-molded PBT housing, UL 94 V-0 (flammability index). Scope of supply: • Connector housing • Ferrule holder for pigtail incl. ferrule • White plastic dust cover		
	SM, blue, 126.0 (+1/-0) µm, pigtail	10	R804280
	Connector tunable in 30° steps		
	MM, beige, 127.0 (+2/-0) µm, pigtail	10	R804281
	SM, blue, 126.0 (+1/-0) µm, patch cable	10	R804277
	MM, beige, 127.0 (+2/-0) µm, patch cable	10	R804278
 090.6518	**Crimp Set LC, 0.9 mm tube** • Colored connector boot • For tubes from Ø 0.6 - 1.2 mm • Material boot: TPE, self extinguishing, free of halogen.		
	White	100	R802935
	Blue	100	R802933
	Beige	100	R802934

Ordering Information	Description	PU	Part Number
090.7151	**Crimp Set all Types E-2000™ / LC / SC** • Crimp sleeve and colored connector boot • For cables from Ø 1.8 - 2.2 mm • Material sleve: aluminum • Material boot: TPE, self extinguishing, free of halogen		
	2.2 mm cable, green	10	R812805
	2.2 mm cable, blue	10	R812806
	1.4 - 1.7 mm cable, red	10	R812808
	2.2 mm cable, black	10	R812807
	3.0 mm cable, blue	10	R813161
	3.0 mm cable, red	10	R813163
	3.0 mm cable, black	10	R813162
	3.0 mm cable, green	10	R813160

Tool Kit for FO Field

Ordering Information	Description	PU	Part Number

090.7160

Toolkit for FO Connectors
Tool Kit FO Field

Assembling tool for connector FO Field.
Scope of supply:

- Tool case
- Fiber fixation tool (R812786)
- Adapter for red light source reduction 2.5mm to 1.25mm
- Adapter 2.5mm (R812784)
- Adapter 1.25mm (R812785)
- Red light source 650nm, 0.5mW (R504313)
- Dual hole fiber stripper (R813813)
- Stripping tool 0.6 - 2.6mm (R812543)
- Kevlar scissor (R810638)
- Bin for fiber piece
- Cleaning wipes
- Fiber marker, black
- Patch cord OM4, SC PC to LC PC, 3m (R813284)
- Patch cord OS2, SC PC to LC PC, 3m (R813285)
- Manual FO Field pigtail and patch cord
- Color: black
- Dimensions: 342 x 280 x 65 mm

R810212

090.7155

Kevlar Scissor

The Kevlar scissor has a hardened, serrated stainless steel blade for cutting the Kevlar (strength member in fiber optic cables) and other aramid fibers and composites. The scissor opens automatically by a spring and is lockable for transport.
Scope of supply:

- Color: metallic / yellow
- Dimensions: 166 x 15 x 45 mm
- Material: stainless steel / plastic

R810638

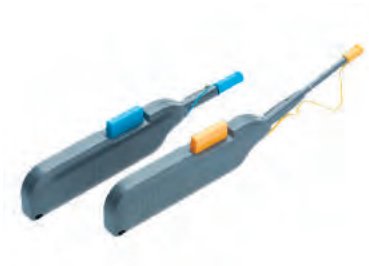
090.7163

Dual Hole Fiber Stripper

- Dual hole stripper for cable 2-3 mm and coating 125-250µm.
- Color: black / yellow
- Dimensions: 140 x 12 x 83 mm

R813813

Tool Kit for FO Field

Ordering Information	Description	PU	Part Number
090.7159	**Fiber Fixation Tool** • Auxiliary tool for fiber fixation at loose tube types (loose and semi-tight tubes). • Color: red • Dimensions: 61 x 20 x 11 mm • Material: plastic: PC, fiber-glass reinforced		R812786
090.7161	**Fiber Cleaver 8°** • Novel 8° fiber cleaver from R&M for angled fiber connections. Designed for 10'000 cleaves (10 positions à 1'000 cleaves). Not suitable for fusion splicing! InfoTo reach RL ≥60dB (≥55dB unmated)		R810207
090.5143	**Red Light Source, 2.5+1.25 mm ferrules** • Red light source (wavelength 640 nm) for 2.5 + 1.25 mm ferrules for connectors E-2000™, FC, SC, ST, LC and MU. InfoLaser power 0.5 mW / -3dBm for approximately 3 km fiber length. Scope of supply: • Red light source • Adapter for ferrule 1.25 mm • Batteries • Case		R504313
 090.2927	**Ferrule Mate** • Replacement Ferrule Mate for the FO cleaning kit case. To clean connectors (300 - 600x) directly at the patch panel.	**1.25mm for LC** **2.5mm for E-2000/FC/SC/ST**	R319901 R319902

Ordering Information	Description	PU	Part Number
090.2924	**Cleaning Kit Case FO** Scope of supply: • Connector microscope, 200x magnification, micro adapters 1.25 mm and 2.5 mm (PC/APC), service adapter for E-2000™ connectors (R316625) • Cletop dry cleaning cassette • Isopropyl alcohol dispenser, empty • Cleaning wipes (10x10 cm) • Ferrule Mate, 1.25 mm, to clean connectors directly at the patch panel (LC) • Ferrule Mate, 2.5 mm, to clean connectors directly at the patch panel (ST, SC, FC, E-2000™)		R319903

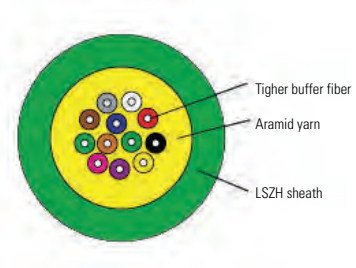
Patch Cords SC-RJ IP67

The SC-RJ IP67 connector developed by R&M is a new fiber-optic 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 2.5 mm ferrule technology, a safety system and double color coding.

090.2031

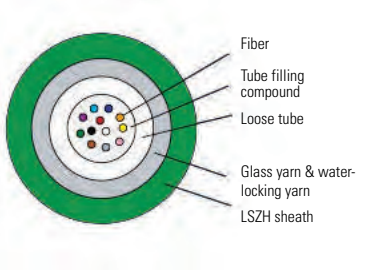
Available on request:
IP67 Patch cords OM1, OM2, OM3 and OS1 of different lengths

Ordering Information	Description	PU	Part Number
090.2109	**Patch Cord Type 06, SC-RJ IP67 PC-SC-RJ IP67 PC** • Both sides fitted with SC-RJ IP67 PC plug • Plug color: gray • Fiber: MM G50/125 (OM2)/125 (OM2) • Cable: Ø 6.0 mm, black (PUR) • Pulling Force: 800 N **OM2, Bm/3, Ø 6.0 mm, 20 m**	1	R318666
090.2124	**Mounting Frame IP67 type 06, plastic** • Compatible with SC-RJ and RJ45 one-channel module Scope of supply: • Mounting frame • Gasket • 4 screws M3x11.5 • 4 screw KA30x10	1	R309588
010.3208	**Protective Cover IP67 type 06** • Cover protecting the contact insert in the IP67 adapter frame type 06	5	R309589



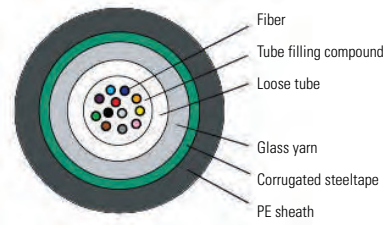
Mini Breakout Cables Indoor

Bandwidth Number	200/500 OM1	500/500 OM2	1500/500 OM3	3500/500 OM4	N/A OS 2
2	R314486	R314488	R314490	On request	R314492
4	R304081	R304073	R308315	R512704	R304135
6	R304082	R304074	R308316	R512705	R304136
8	R304083	R304075	R308313	R512706	R304137
12	R304084	R304076	R308318	R512707	R304138
24	R304086	R304078	R308317	R512708	R304140



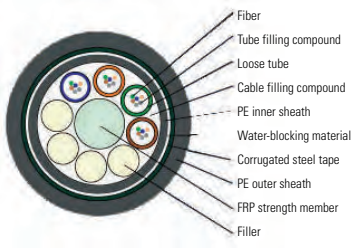
Central Loose Tube Cables Indoor / Outdoor

Bandwidth Number	200/500 OM1	500/500 OM2	1500/500 OM3	3500/500 OM4	N/A OS 2
4	R304093	R304088	R308217	R512391	R304143
6	R304094	*R304089*	*R308310*	R512392	*R304145*
8	R304095	R304090	R308218	R512393	R304146
12	R304096	*R304091*	*R308214*	R512394	R304147
24	R304097	R304092	*R308215*	R512395	*R304148*



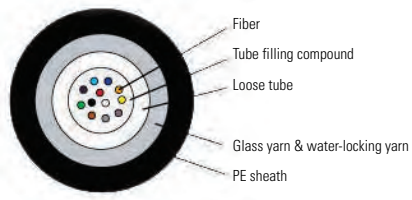
Central Loose Tube Cables / Outdoor (Corrugated Steeltape)

Bandwidth Number	200/500 OM1	500/500 OM2	1500/500 OM3	3500/500 OM4	N/A OS 2
6	*R312796*	R312795	*R312794*	On request	*R312793*
8	R314455	R314456	R314457	On request	R314543
12	R304213	R304210	R311390	On request	*R304216*
24	R304214	R304211	R311391	On request	*R304217*



Stranded Loose Tube Cables Outdoor

Bandwidth Number	200/500 OM1	500/500 OM2	1500/500 OM3	3500/500 OM4	N/A OS 2
1x12	R314544	R314548	R314552	On request	R314556
2x12	R314545	R314549	R314553	On request	R314557
4x12	R304215	R304212	R311392	On request	R304218
6x12	R314546	R314550	R314554	On request	R314558
8x12	R314547	R314551	R314555	On request	R314559



Central Loose Tube Cables / Outdoor

Bandwidth Number	200/500 OM1	500/500 OM2	1500/500 OM3	3500/500 OM4	N/A OS 2
4	R314519	R314521	R314523	R512396	R314525
6	R312789	R312791	R312792	R512397	*R312797*
8	R314520	R314522	R314524	R512398	R314526
12	R304153	R304150	R311387	R512399	R304156
24	R304154	R304151	R311388	R512400	R304157

ALL Packing Unit: 2000m/drum

Bandwidth (850µm/1300µm)

090.2067

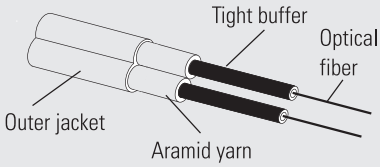
FO patch cords are used to interconnect active network components do the connections on the patch panel.

Features

- Availble on while range of lengths
- Duplex patch cord
- LSZH cable jacket
- Typical attenuation:
  < 0.30 dB for Both SM/MM
- Other connector type & simplex configuration availabel upon request

FO Duplex Patch Cord

020.0928



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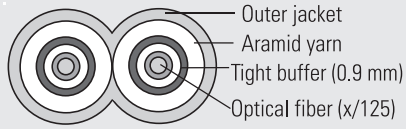

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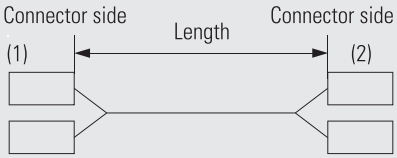
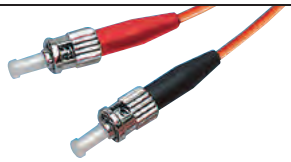
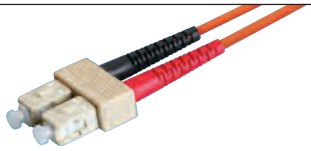
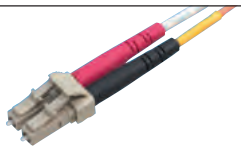
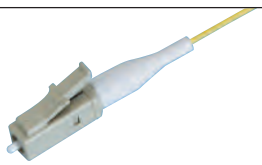
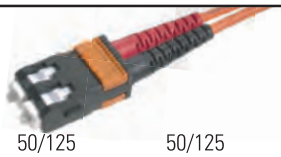


Connector side 1 / Connector side 2		010.1254.2 ST 50/125 (OM4)	50/125 (OM2)	50/125 (OM3)	9/125 OS1 (PC)	010.2310 SC Duplex 50/125 (OM4)	50/125 (OM2)
010.1254.2  **ST**	1 m	R802569	R30635	R323039	R800308	R806542	R303970
	2 m	R802571	R30636	R323040	R317534	R806153	R303971
	3 m	R802572	R30637	R323041	R317535	R806553	R303972
	5 m	R802573	R30639	R323042	R317536	R806554	R303974
	10 m	R806541	R800353	R800354	R800311	R806555	R800356
010.2310  **SC Duplex**	1 m	R806542	R303970	R800299	R800303	R802541	R303980
	2 m	R806153	R303971	R800032	R800304	R802544	R303981
	3 m	R806553	R303972	R800300	R800305	R802545	R303982
	5 m	R806554	R303974	R800301	R800306	R802546	R303984
	10 m	R806555	R800356	R800302	R800307	R803984	R800358
090.2056 **SC-RJ**	1 m	R806556	R300131	R800312	R800317	R806561	R300121
	2 m	R806557	R300132	R800313	R800318	R804980	R300122
	3 m	R806558	R300133	R800314	R800319	R804981	R300123
	5 m	R806559	R300135	R800315	R800320	R806562	R300125
	10 m	R806560	R800361	R800316	R800321	R806563	R800363
010.2804  **LC**	1 m	R806565	R800289	R800292	R800294	R802766	R310290
	2 m	R806566	R312986	R800023	R800295	R802767	R308947
	3 m	R806567	R313136	R800024	R800296	R804042	R308948
	5 m	R806568	R800290	R800025	R800297	R804692	R308949
	10 m	R806569	R800291	R800293	R800298	R805017	R800366
010.2804  **Pigtail**	2.5 m	R802913	R307299	R307387	R313152	R802912	R301461

Ordering Information	Description	PU	Part Number
010.2983/010.2982	**Color Clip, coding for SC-RJ patch cable**		
	Gray	12	R310145
	Blue	12	R310143
	Orange	12	R310148
	Yellow	12	R310142
	Turquoise	12	R310146
	Green	12	R310141
	Red	12	R310144
	Violet	12	R310147
	Coding Frame	12	R310216

50/125 (OM3)	9/125 OS1 (PC)
R800299	R800303
R800032	R800304
R800300	R800305
R800301	R800306
R800302	R800307
R323043	R313027
R323044	R303343
R800835	R303344
R323046	R303346
R800359	R313414
R800322	R800331
R800324	R800332
R800325	R800333
R800326	R800334
R800327	R800335
R323059	R800378
R323060	R308913
R323061	*R308914*
R323062	R308915
R800121	R313410
R307388	*R31014*

090.2056



SC-RJ

50/125 (OM4)	50/125 (OM2)	50/125 (OM3)	9/125 OS1 (PC)
R806556	R300131	R800312	R800317
R806557	R300132	R800313	R800318
R806558	R300133	R800314	R800319
R806559	R300135	R800315	R800320
R806560	R800361	R800316	R800321
R806561	R300121	R800322	R800331
R804980	R300122	R800324	R800332
R804981	R300123	R800325	R800333
R806562	R300125	R800326	R800334
R806563	R800363	R800327	R800335
R802561	R319877	R323023	R319878
R802563	R319976	R323024	R319879
R802565	R319977	R323025	R319965
R802567	R319975	R323026	R319966
R806564	R818182	R818181	R818180
R806570	R310289	R800238	R800346
R804978	R308944	R800672	R800347
R804979	R308945	R800112	R800348
R806571	R308946	R803255	R800349
R806572	R800371	R800114	R800350

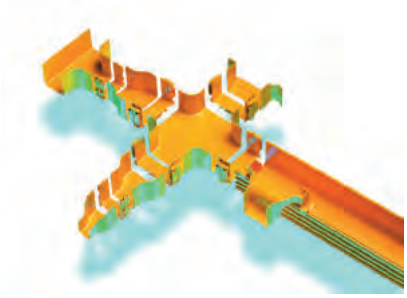
010.2804

LC

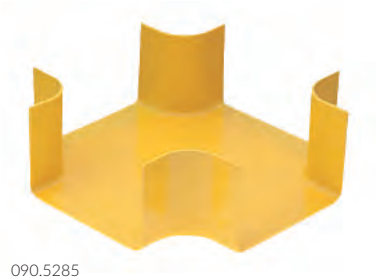
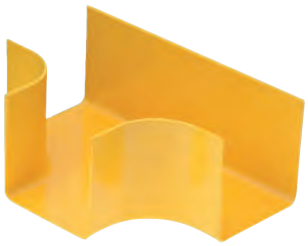
50/125 (OM4)	50/125 (OM2)	50/125 (OM3)	9/125 OS1 (PC)
R806565	R800289	R800292	R800294
R806566	R312986	R800023	R800295
R806567	R313136	R800024	R800296
R806568	R800290	R800025	R800297
R806569	R800291	R800293	R800298
R802766	R310290	R323059	R800378
R802767	R308947	R323060	R308913
R804042	R308948	*R323061*	*R308914*
R804692	R308949	R323062	R308915
R805017	R800366	R800121	R313410
R806570	R310289	R800238	R800346
R804978	R308944	R800672	R800347
R804979	R308945	R800112	R800348
R806571	R308946	R803255	R800349
R806572	R800371	R800114	R800350
R802250	R310292	R323063	R800060
R802251	R308938	R323064	R308903
R802252	R308939	*R323065*	*R308904*
R802253	R308940	*R323066*	*R308905*
R805239	R800373	R323111	R313412
R803549	R803547	*R803548*	*R803544*

LC-QR Patch Cord can be found on page 111.

The Raceway System is a cable guiding system specially designed for an individual and safe guiding of optical cables outside the protected area. Guiding optical cables separately from copper lines achieves the highest levels of security and probability of failure-free operation for all networks. The uniquely solid and compact design plus the snap-on mounting system guarantee swift and cost-efficient installation, no special tools are needed. The Raceway System is supplied in six different sizes, providing custom-tailored installation for all optical cable guiding requirements and applications.



Ordering Information	Description	PU	Part Number
090.5280	**Main Duct Raceway** • The main duct consists of one single blow-molded piece • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	30x50, 1 m	1	R509411
	50x50, 1 m	1	R509412
	100x100, 1 m	1	R509413
	160x100, 1 m	1	R509414
	220x100, 1 m	1	R509415
	300x100, 1 m	1	R509416
	Length of 2 m available		
090.5426	**Main Duct Raceway** • The main duct consists of one single blow-molded piece • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	30x50	1	R509510
	50x50	1	R509511
	100x100	1	R509512
	160x100	1	R509513
	220x100	1	R509514
	300x100	1	R509515
	Length of 2 m request		

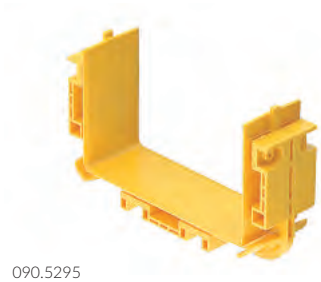
Ordering Information	Description	PU	Part Number
 090.5285	**Cross Raceway** • The cross is used to connect four main ducts or other components, linked with snap-on joints. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509418
	Other sizes are available		
090.5416	**Cross Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509517
	Other sizes are available		
 090.5287	**T-Joint Raceway** • The T-joint is used to connect three main ducts or other components, linked with snap-on joints • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509425
	Other sizes are available		
090.5417	**T-Joint Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R510307
	Other sizes are available		

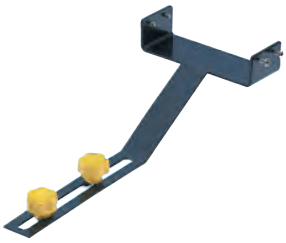
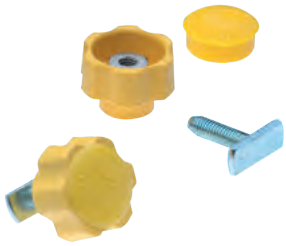
Ordering Information	Description	PU	Part Number
090.5283	**Elbow 45°-H Raceway** • Used for the horizontal 45° redirecting of cables • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509432
	Other sizes are available		
090.5420	**Elbow 45°-H Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant).		
	160x100	1	R510311
	Other sizes are available		
090.5282	**Elbow 90°-H Raceway** • Used for the horizontal 90° (2 x 45°) redirecting of cables. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509436
	Other sizes are available		
090.5421	**Elbow 90°-H Cover Raceway** • The cover (2 x 45°) can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509529
	Other sizes are available		

Ordering Information	Description	PU	Part Number
090.5290	**Elbow 45°-D Raceway** • Used for the vertical 45° downward redirecting of cables • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R509440
	160x100	1	R509441
	Other sizes are available		
090.5424	**Elbow 45°-D Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R510318
	160x100	1	R510319
	Other sizes are available		
090.5289	**Elbow 90°-D Raceway** • Used for the vertical 90° (2 x 45°) downward redirecting of cables • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant) Scope of supply: • 2 elbows 45°-D Raceway • Joiner Raceway		
	100x100	1	R509445
	160x100	1	R509446
	Other sizes are available		
090.5425	**Elbow 90°-D Cover Raceway** • The cover (2 x 45°) can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R509538
	160x100	1	R510323
	Other sizes are available		

Ordering Information	Description	PU	Part Number
090.5291	**Elbow 45°-U Raceway** • Used for the vertical 45° upward redirecting of cables • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509451
	Other sizes are available		
090.5422	**Elbow 45°-U Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R510327
	Other sizes are available		
090.5292	**Elbow 90°-U Raceway** • Used for the vertical 90° (2 x 45°) upward redirecting of cables • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant) Scope of supply: • 2 elbows 45°-U Raceway • 2 Snap-on Joint Raceway		
	160x100	1	R509456
	Other sizes are available		
090.5423	**Elbow 90°-U Cover Raceway** • The cover (2 x 45°) can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R510330
	Other sizes are available		

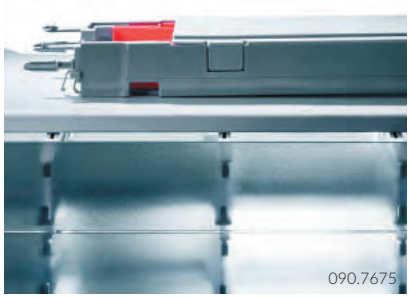
Ordering Information	Description	PU	Part Number
090.6762	**Drop Outlet Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R510332
090.5518	**Drop Outlet Raceway** • The drop outlet can be positioned anywhere along the side of the main duct, no snap-on joints needed, and can be connected with various components such as reducers, elbows and trumpets. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R509459
090.5294	**Trumpet Outlet Raceway** • The outlet trumpet is the final protective component, taking the fiber-optic cable to the protected area at the minimum radius (30 mm). • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R509461
	160x100	1	R509462
	Other sizes are available		

Ordering Information	Description	PU	Part Number
090.5288	**Reducer Raceway** • Used to reduce main ducts and other components to the next smaller size with snap-on joints. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100/100x100	1	R509466
	Other sizes are available		
090.5418	**Reducer Cover Raceway** • The cover can be retrofitted for additional protection of the optical cable. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100/100x100	1	R510334
	Other sizes are available		
 090.5295	**Snap-on Joint Raceway** • For a solid and smooth linking of main ducts and other components. • One snap-on joint is required on each end for the horizontal and vertical elbows and also for the cross and T-joints • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	100x100	1	R509470
	160x100	1	R509471
	Other sizes are available		
090.5419	**End Cap Raceway** • The end cap is used to cap off the open ends of main ducts or other components, no snap-joints needed • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	160x100	1	R509474
	Other sizes are available		

Ordering Information	Description	PU	Part Number
 090.5298	**Mounting Kit Raceway** • For installing the outlet trumped • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant) Scope of supply: • Mounting bracket • 2T-Bolts • 4 fastening screws		
	100x100	1	R509479
	Other sizes are available		
 090.5299	**T-Bolt Raceway** • The T-nut slot is used to fasten the mounting kit and the T-bolts mounted on the side or bottom part of main ducts, for a fast and safe mounting of the entire Raceway system. • Color: yellow • Material: plastic PC/ABS (halogen-free, flame-retardant)		
	M6/25x25	1	R509480

Please scan the QR Code for more information on Raceway System Solutions

Housing


090.7675

Features

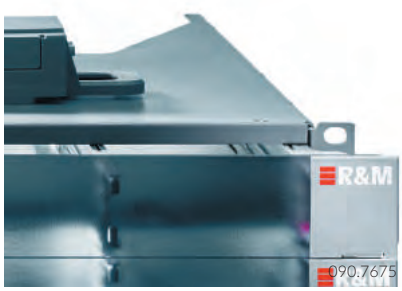
The Netscale housing is mountable in 19-in racks or cabinets and provides user-friendly and flexible ultra high-density connectivity when combined with Netscale modules, cassettes, harnesses, trunks and Netscale patch cords.

The elaborate design of Netscale housings includes drawers receiving modules or cassette from either the front or the rear. A fundamental design feature is the break-up of traditional RU-sizing. Netscale drawers are only 0.75RU high which allows the 3RU housing to host four of them and hence, increase the density.

The Netscale housing also provides the infrastructure fundament for R&MinteliPhy™, the automated infrastructure management solution.

Ordering Information	Description	PU	Part Number
090.7687	**Netscale Housing 1U 600** • Housing for any server rack, network racks and open frames.	1	R828643
090.7684	**Netscale Housing 3U 600** • Housing for any server rack, network racks and open frames.	1	R828644
090.7686	**Netscale Housing 1U** • Housing for ≥800mm wide racks without air partitioning. Scope of supply: • Housing including front door & mounting accessories	1	R826602
090.7684	**Netscale Housing 3U** • Housing for ≥800mm wide racks without air partitioning.	1	R826603

Rear-Cabling Manager

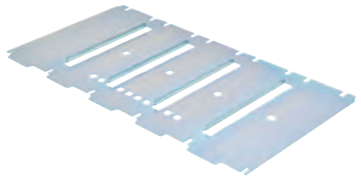


Features

The rear-cabling manager (RCM) for MPO and LC trunk cables is specially designed to address both slack management and documentation of trunk cables in the back-side of the Netscale housing. It accepts incoming trunk cables from the back for each individual insert (either module or cassette) to improve installation times.

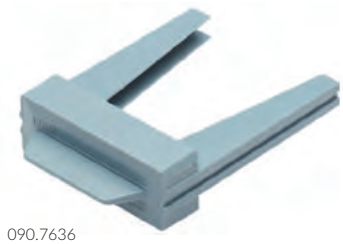
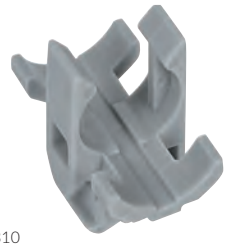
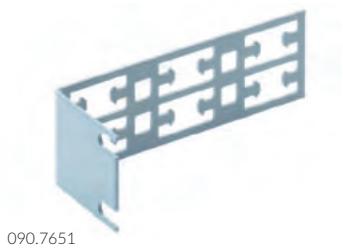
The RCM comprises up to two divider snap-on clips at the rear which enable fast and easy installation and strain-relief of trunk cables. It allows for the slack management of trunk legs and ensures a minimum bend radius of 20 mm. It also has a documentation area at the back to improve label visibility of trunk cables.

For an R&MinteliPhy™ adaption, it provides a separate slack management for an optional bus cable coming from the RFID-sensor system.

Ordering Information	Description	PU	Part Number
090.7634	**Netscale Rear-Cabling Manager**	1	R827348
 070.0265	**Netscale RCM Tray** • A RCM Tray is necessary for an expansion of the Netscale housing 3U with RCM. Up to 5 RCM can be placed per layer.	1	R815875

Please scan the QR Code for more information on Netscale Solutions

Accessories

Ordering Information	Description	PU	Part Number
 090.7636	**Netscale Blank Insert** • Blank insert , covers empty slots within Netscale drawers	1	R828589
 021.4310	**FCA Divider Clip, 25xsmall** • Size 1 snap-on clip, 25 units		R827350
021.4310.2	**FCA Divider Clip, 25xmid-size** • Size 2 snap-on clip, 25 units	1	R827352
 090.7651	**Netscale Cable Manager 1U** • 1RU strain-relief bracket for accommodating four snap-on clips for trunks at rear post when RCM is not deployed	1	R826609

LC-Duplex to MPO Modules

Netscale LC-Duplex to MPO modules provide the interface between the male MPO connectors on the trunk and the LC-Duplex patch cords that will then connect directly into the transceiver modules. It can either contain 12 or 18 LC-Duplex ports. The LC-Duplex ports feature integrated laser shutters that move out of the way when the connector is inserted.

R&M's Type S LC-Duplex to MPO modules ensure correct fi ber polarity while requiring just one type of patch cord on both ends of the link. The crossover of the fi bers for duplex signal transmission takes place within the module. The connectivity diagram for the trunk cable and patch cord remains the same all the time, even for parallel transmission for setting up 40/100 GbE installations.

The sum of LC-Duplex ports is divided into Tx and Rx so that all Tx fi bers run to one MPO and all Rx fi bers to the other MPO. These MPOs connections can be bundled into a single trunk. The system is mated key-up to key-down. Symmetric cabling according to TIA-568-C Method B for 10G, 40G and 100G, as well as 8G and 16G Fibre Channel is therefore enabled in collaboration with type B trunks. By using type A trunks, Method A is established. That means capacity can be expanded directly in an uncomplicated and inexpensive manner.

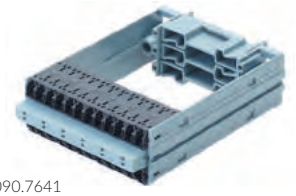
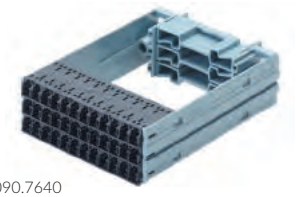
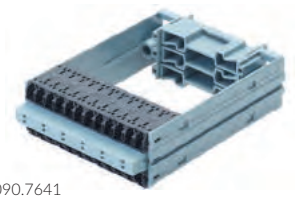
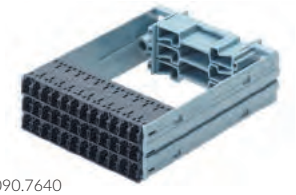
Ordering Information	Description	PU	Part Number
090.7645	**Netscale MPO-LC 12 ports MM type S** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832181
090.7644	**Netscale MPO-LC 18 ports MM type S** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832182
090.7645	**Netscale MPO-LC 12 ports SM type S** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832183
090.7644	**Netscale MPO-LC 18 ports SM type S** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832184

Adapter Cassettes

Netscale adapter cassettes are pass-through inserts with LC-Duplex or MPO adapters. The LC or MPO trunk cables connect at the rear of the adapter cassettes. From the front side, various options are possible, ranging from LC-duplex or MPO patch cords for equipment connections over harness cables to cross-connection used in main distribution areas (MDA).

Like Netscale modules, cassettes can be installed from the front or rear of any Netscale housing. Netscale adapter cassettes are available with 12 and 18 adapters for multimode and singlemode applications.

Like all Netscale inserts, the 12 port versions of the adapter cassettes can be retrofitted with the RFID-sensor system of R&MinteliPhy™.

Ordering Information	Description	PU	Part Number
 090.7641	**Netscale LC-Duplex 12 ports MM** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832187
 090.7640	**Netscale LC-Duplex 18 ports MM** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832188
 090.7641	**Netscale LC-Duplex 12 ports SM** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832189
 090.7640	**Netscale LC-Duplex 18 ports SM** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832190
090.7639	**Netscale MPO 12 ports** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832191
090.7638	**Netscale MPO 18 ports** Scope of supply: • Slide-in unit, labeling strips and installation instructions	1	R832192

MPO Trunks

MPO trunks are pre-terminated cables with one or more 12-fiber MPO connectors on both ends. Trunks are purpose made for high density backbone connections between cabinets or zones in the data center. R&M's MPO trunks conform with TIA-568 C.0 Types A or B polariy. Fast traceability is guaranteed with color coded jackets (OM4 - heather violet, OM3 - aqua, OS2 - yellow).

Ordering Information

FA–	L				–			–	N	L			–			–	N	L			–			N
		1	2	3		4	5				6	7		8	9				10	11		12	13	

1 Choose fiber count
12 = 12 fibers
24 = 24 fibers
36 = 36 fibers
48 = 48 fibers
72 = 72 fibers
E4 = 144 fibers

2 Choose fiber type
S2Y = singlemode (OS2)
M3T = multimode (OM3)
M4H = multimode (OM4)
M5L = multimode (OM5)

3 Choose jacket type
S = standard jacket
D = ruggedized jacket

4 Choose connector on end A
1M = male 12 fibers MTP
1F = female 12 fibers MTP

5 Choose polish angle
0 if multimode
8 if singlemode

6 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

7 Choose grip scheme on end A
P = with grip
O = without grip

8 Choose connector on end B
1M = male 12 fibers MTP
1F = female 12 fibers MTP

9 Choose polish angle
0 if multimode
8 if singlemode

10 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

11 Choose grip scheme on end B
P = with grip
O = without grip

12 Choose polarity
A = Type A
B = Type B

13 Choose cable length from endface to endface
1,1 – 150 m (standard jacket)
1,1 – 400 m (ruggedized jacket)

OM5 with 12 and 24 fibers only

Netscale Patch Cords

The Netscale patch cord features an innovative push-pull design with a textured boot to ensure easy access to and removal of the connector. It also allows for quick tool-less polarity reversal. Of special interest is the industry-leading 1.4 mm cable diameter design that enables unmatched ease of management in high density rack and panel configurations, as compared to legacy cords with diameters of 2 mm or more. And of course, it can be equipped with an R&M*inteliPhy*™ RFID-tag.

«Netscale utilizes the LC-quick release connector and smallest diameter uniboot patch cords for minimal cabling bulk.»

Ordering Information

PA-	2		14-	LU				N	LU				N			N
		1				2	3				4	5		6	7	

1 Choose fiber type
S2YL = singlemode (OS2)
M3TR = multimode (OM3)
M4HV = multimode (OM4)

2 Choose polishing of connector A
0 if multimode
8 if singlemode

3 Choose grade of connector A
A = Grade Am, multimode
C = Grade C, singlemode

4 Choose polishing of connector B
0 if multimode
8 if singlemode

5 Choose grade of connector B
A = Grade Am, multimode
C = Grade C, singlemode

6 Choose polarity
A = A-A
B = A-B

7 Choose cable length from endface to endface
00.1 – 999 m

Please scan the QR Code for more information on LC QuickRelease

MPO Patch Cords

MPO patch cords are directly connected with QSFP+ transceivers to allow 40G Ethernet transmission over a fiber optic link. When used in conjunction with MPO trunks and MPO cassettes, this female 12-fiber MPO patch cords allow for easy migration to parallel optics.

Ordering Information

FA–	L	12		S	-	1F	0	-	N	L	0	O	-	1F	0	-	N	L	0	O	-	B		N
			1																				2	

1 Choose fiber type
M3T = multimode (OM3)
M4H = multimode (OM4)
M5L = multimode (OM5)

2 Choose cable length from endface to endface
1.1 – 150 m

Anmerkung: OM5 nur mit 12 und 24 Fasern

MPO-LC Fanouts

MPO-LC Fanouts combine MPO connectors that can be plugged either into MPO cassettes or LC-to-MPO modules, and LC-Duplex connectors that connect directly into SFP+ transceivers. This setup can be employed as an interconnect solution for port replication on the LC-to-MPO module.

Ordering Information

FA–	L				–		0	–	N	L			–	LU	0		N				–	B		N
		1	2	3		4					5	6				7		8	9	10			11	

1 Choose fiber count
12 = 12 fibers
24 = 24 fibers
36 = 36 fibers
48 = 48 fibers
72 = 72 fibers
E4 = 144 fibers

2 Choose fiber type
M3T = multimode (OM3)
M4H = multimode (OM4)
M5L = multimode (OM5)

3 Choose jacket type
S = standard jacket
D = ruggedized jacket

4 Choose connector on end A
1M = male 12 fibers MTP
1F = female 12 fibers MTP

OM5 with 12 and 24 fibers only

5 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

6 Choose grip scheme on end A
P = with grip
O = without grip

7 Choose grade of LC Uniboot
A = Grade A
B = Grade B

8 Choose fanout diameter
S = 0.9 mm
M = 2.0 mm

9 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

10 Choose grip scheme on end B
P = with grip
O = without grip

11 Choose cable length from endface to endface
1.1 – 150 m (standard jacket)
1.1 – 400 m (ruggedized jacket)

QSFP+ Conversion Cables

The QSFP+ conversion cable is a pre-terminated solution allowing networks to 100% utilize MPO trunks based on 12 fibers when migrating to 40G, which uses technology based on 8 fibers (four fibers transmitting at 10G in each direction). Without this conversion, data centers running 40G parallel optics on their existing fiber backbone only use 66 percent of the installed fiber and waste a third of their invested capital.

Ordering Information

FA–	L	24			C		0	–	N	L			–		0	–	N	L			–			N
			1	2		3					4	5		6					7	8		9	10	

1 Choose fiber type
M3T = multimode (OM3)
M4H = multimode (OM4)

2 Choose jacket type
S = standard jacket
D = ruggedized jacket

3 Choose connector on end A
1M = male 12 fibers MTP
1F = female 12 fibers MTP

4 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

5 Choose grip scheme on end A
P = with grip
O = without grip

6 Choose connector on end B
1M = male 12 fibers MTP
1F = female 12 fibers MTP

7 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

8 Choose grip scheme on end B
P = with grip
O = without grip

9 Choose polarity
B = Type B
S = Type S

10 Choose cable length from endface to endface
1.1 – 150 m (standard jacket)
1.1 – 400m (ruggedized jacket)

SFP+ Conversion Cables

SFP+ conversion cables aggregate four 10G SFP+ transceiver modules with LC-Duplex ports in a 40G QSFP+ transceiver with an MPO port.

Ordering Information

FA-	L	8		S	C		0	-	N	L			-	LU	0		N				-	B		N
			1			2					3	4				5		6	7	8			9	

1 Choose fiber type
M3T = multimode (OM3)
M4H = multimode (OM4)

2 Choose connector on end A
1M = male 12 fibers MTP
1F = female 12 fibers MTP

3 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

4 Choose grip scheme on end A
P = with grip
O = without grip

5 Choose grade of LC Duplex
A = Grade Am
B = Grade Bm

6 Choose fanout diameter
S = 0.9 mm
M = 2.0 mm

7 Choose staggering scheme
05 = fanout length 0.5 m
08 = fanout length 0.8 m
10 = fanout length 1.0 m
20 = fanout length 2.0 m
S1 = Suited for RCM

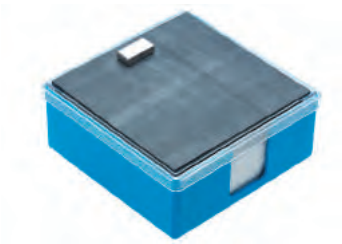
8 Choose grip scheme on end B
P = with grip
O = without grip

9 Choose cable length from endface to endface
1.1 – 150 m

Cleaning Products

Studies have shown that 80 to 90 percent of all transmission problems in optical networks are caused by dirty connectors. As a rule, every connector must be checked and cleaned, before it is plugged in. The same applies to new and unused patch cords or cable assemblies

090.2924

Ordering Information	Description	PU	Part Number
090.2924	**FO-Cleaning tool kit** Due to export restrictions we do not sell any alcohol. For cleaning purpose please use Isopropyl-Alcohol 99,7% which can be bought in any drug store / pharmacie. Scope of supply: • Connector microscope, 200x magnification, micro adapters 1.25 mm and 2.5 mm (PC/APC), service adapter for E-2000™ connectors (R316625) • Cletop dry cleaning cassette • Isopropyl alcohol dispenser, empty • Cleaning wipes (10x10 cm) • Ferrule Mate, 1.25 mm, to clean connectors directly at the patch panel (LC) • Ferrule Mate, 2.5 mm, to clean connectors directly at the patch panel (ST, SC, FC, E-2000™)	1	R319903
 090.2926	**Substitute cleaning tissues 4"x4"** Replacement cleaning wipes (lint-free) for the FO cleaning kit case. Quantity: 100 wipes (without box). Dimensions: 10 x 10 cm.	1	R319906
090.2927	**Ferrule Mate, 1.25 mm, for LC** Replacement Ferrule Mate for the FO cleaning kit case. To clean connectors (300 - 600x) directly at the patch panel.	1	R319901

Ordering Information	Description	PU	Part Number
090.2925	**Cletop Cleaning Spare Cassette** Spare cassette for the FO cleaning kit case.	1	R319904
090.6685	**IBC Brand Cleaner, MPO in adapters** To clean of MPO connector in adapter.	1	R803932
090.6686	**Reel Cleaner, MPO connectors** Designed for cleaning of MPO-male, also for other FO connectors usable.	1	R803931
090.6687	**Reel Cleaner Spare Cleaning Tapes, 6x** Spare cleaning tapes for the reel cleaner MPO-male.	1	R803933

R&MinteliPhy™

R&MinteliPhy™ opens up a new era for IT managers. Now, they can manage their physical infrastructure intelligently and fully automatic. Notepads are things of the past, as are hard-to-manage tables. With R&MinteliPhy, data centers immediately improve the capacity utilization, profitability and availability. IT managers gain control over all ports and more. This is because R&MinteliPhy helps with analysis and documentation, with the introduction of standardized processes and with all typical management tasks associated with passive infrastructure.

For further information regarding additional hardware and the R&MinteliPhy software, please refer to R&MinteliPhy Quickreference.

Ordering Information	Description	PU	Part Number
090.7704	**R&MinteliPhy Netscale Sensorbar** For insertion into a Netscale 12-port cassette or module. Requires installation of a Netscale Rear Cable Manager RCM. Scope of supply: • Sensorbar with 12 RFID antennas	1000	R824369
090.6917	**R&MinteliPhy Netscale Panel Control Unit PCU** Mounted on the rear of the Netscale housing. Connections for 5 Netscale sensor bars. Scope of supply: • Panel Control Unit with 60 RFID readers	1	R824370
070.0266	**R&MinteliPhy RFID Clip Pair for LC-QR Uniboot (10 pairs)** For the tool-free retrofitting of 10 LC-QR Uniboot patch cords with R&MinteliPhy functions. Compatible with R&M patch cords. Scope of supply: • Carton box containing 10 pairs of clips	1	R827357

19" FibereasyRack2 1U Breakout

090.7187

Features
Breakout and patch box, mounting depth 225 mm, continuously depth-adjustable up to 55 mm, rear cable feed, cable entry possible from three different angles.

The box units are on the same level, the storage part for pre-terminated cables features fastening strap, fitted with adapters; the box is continuously extendable up to 210 mm, at full extension it can be inclined 10° forwards.

Optimum access to the pre-terminated cables, the tray can be fully detached from the box by release lever. Includes indelible laser trademark, fastening material, labeling strips and installation instructions.

Optical specifications:
• Delta insertion loss: ≤ 0.2 dB, testing method acc. to IEC 61300-3-4
Mechanical specifications:
• Mating cycles: min. 500
• Pull-out force: min. 70 N

Ordering Information	Description	PU	Part Number
090.7187	**19" 1U FibereasyRack2 24xLC-Duplex, PC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation		
	Unloaded panel		*R822810*
	OM3/OM4		R816060
	Singlemode		R816058
090.7187	**19" 1U FibereasyRack2 12xLC-Duplex, PC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel equipped with adapters		
	OM3/OM4		R816057
	Singlemode		R816055

Please scan the QR Code for more information on UniRack2 & FibereasyRack2

Ordering Information	Description	PU	Part Number
090.7314	**19" 1U FibereasyRack2 24xSC-Duplex, PC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation		
	Unloaded Panel		*R818429*
	Multimode		R816059
090.7314	**19" 1U FibereasyRack2 12xSC-Duplex, PC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel equipped with adapters		
	Multimode		R816056
090.7315	**19" 1U FibereasyRack2 24xSC Singlemode, PC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel equipped with adapters		
	Singlemode		R815999
090.7320	**19" 1U FibereasyRack2 24xE2000™ Singlemode, APC, ceramic** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • One 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel equipped with adapters		
	Singlemode		R816054

19" UniRack2
1U Splice

090.7186

Features

Splice and patch box, mounting depth 225 mm, continuously depth-adjustable up to 55 mm; rear cable feed, cable entry possible from three different angles.

The box has two levels, the lower level serves as storage for spare loose tubes, tray fixation in the side structure is ensured; the upper level serves as storage for spare pigtails (1.3 m of fiber stored in the splice tray).

Guaranteed bending radius = 40mm, fitted ready for splicing with pigtails and adapters, inserted and tested, two or less splice trays with radius 40 mm, box continuously extendable up to 210 mm, at full extension it can be inclined 10° forwards.

Optimum access to loose tubes, adapters and pigtails, the tray can be fully detached from the box by release lever. Includes indelible laser trademark, fastening material, labeling strips and installation instructions.

Ordering Information	Description	PU	Part Number
090.7186	**19" 1U UniRack2 24xLC-Duplex, ceramic** Scope of supply: • 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual		
	Unloaded		*R819674*
	Grade C/1, APC, G.652.D		R816037
	Grade C/2, PC, G.652.D		R816039
	Grade Am/2, PC, OM4		R816047
090.7315	**19" 1U UniRack2 24xSC-Duplex, ceramic** Scope of supply: • 19" 1U slide-in unit, splice tray plate with 2 splice trays radius 40 mm, fastening material, labeling strips and installation manual		
	Empty Panel		*R818433*
	Grade C/2, PC, G.652.D		R816040
	OM4, Grade Bm/3, PC		R816041
	OM3, Grade Bm/3, PC		R816038

Ordering Information	Description	PU	Part Number
090.7321	**19" 1U UniRack2 24xE-2000™, ceramic** Scope of supply: • 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 and pigtails		
	Grade B/1, APC, G.652.D		R816036
	Grade C/1, APC, G.652.D		R816051
	Grade C/2, APC, G.652.D		R816050
	OM2, Grade Bm/3, PC		R815998
090.7319	**19" 1U UniRack2 24xE-2000™-Compact G.652.D, APC, ceramic** Scope of supply: • 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 and pigtails		
	Grade B/1		R816045
	Grade C/1		R816046
090.7317	**19" 1U UniRack2 24xFC G.652.D, APC, ceramic** Scope of supply: • 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 and pigtails		
	Grade C/1		R816042
	Grade C/2		R816049
090.7317	**19" 1U UniRack2 24xST Multimode, ceramic** Scope of supply: • 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 and pigtails		
	OM3, Grade Bm/3		R816044
	OM4, Grade Bm/3		R816043

19" FibereasyRack2
1U Breakout / Splice

090.7563

Features
Patch box and option of usage as breakout or splice box, mounting depth 225 mm, continuously depth-adjustable up to 55 mm, rear feed, cable entry possible from three different angles.

The box units are on the same level, when used as a breakout box, the storage part for incoming cables features fastening strap. Splice tray radius 40 mm and splice holders are fitted if the box is intended to be used for splicing. The box in continuously extendable up to 210 mm, at full extension it can be inclined 10° forwards.

Optimum access to pre-term cables, loose tubes, adapters and pigtails, the tray cab be fully detached from the box by release lever. Includes indelible laser trademark, fastening material, labeling strips and installation instructions.

Ordering Information	Description	PU	Part Number
090.7563	**19" 1U FibereasyRack2 for 24xE-2000/LC-Duplex/SC, Pre-assembled-24, R&MinteliPhy ready** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • Two 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel empty • Splice trays radius 40 mm	1	R795926
090.7315	**19" 1U FibereasyRack2 for 24xSC Duplex, Pre-assembled-24, R&MinteliPhy ready** Scope of supply: • 19" 1U slide-in unit, fastening material, labeling strips and installation instructions • Two 2 x 15 mm radius guards • Fastening strap for safe cable fixation • Front panel empty • Splice trays radius 40 mm	1	R795928

SFP+ Direct Attach Cable

Ordering Information	Description	PU	Part Number

090.7075

SFP+ Direct Attach Cable

- SFP+ direct attach cable, LSZH, with mechanical pulling latch, length 7.0 m. For 10 Gigabit connections in racks.
- Cable Twinax flexible, 2 x 2 x 0.20 (AWG24), Ø 6.0 mm, halogen-free and heavy-metal free in acc. with EU directives RoHS 2.

According to the following standards:

- Electrical: SFF-8431, SFF-8083
- Mechanical: SFF-8432
- EEPROM: SFF-8472

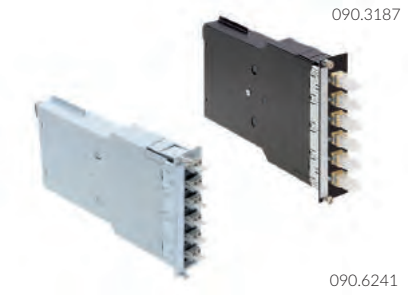
0.5 m		R812576
1 m		R812577
2 m		R812578
3 m		R812579
4 m		R812580
5 m		R812765
6 m		R812766
7 m		R812767

MPO Module

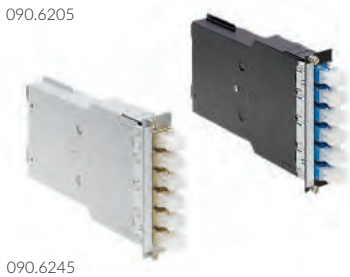
Features

- Easy handling (plug and play)
- Integrated bending radius limiter and hold-down cross
- High packing density, up to 288 fibers per 3U patch panel
- Pre-numbered front plates, extra labeling field

090.3187



090.6241

Ordering Information	Description	PU	Part Number
090.6203 090.6242	**MPO Modul 7HP, metal, 12MTP-male - 6xLC-Duplex** • Polishing connector 12MTP-male: PC • Polishing connector LC: PC Scope of supply: • Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions • Metal front panel equipped with 6xLC-Duplex adapters and fan-out inserted, rear side one 12MTP-male connector mounted		
	G.652.D, APC/PC, ceramic, type A, gray	1	R514559
	G.652.D, APC/PC, ceramic, type A, black	1	R514569
	OM3, PC/PC, ceramic	1	R512763
	OM4, PC/PC, ceramic, type A, gray	1	R514563
	OM4, PC/PC, ceramic, type A, black	1	R514573
090.6205  090.6245	**MPO Modul 7HP, metal, 2x12MTP-male - 12xLC-Duplex** • Polishing connector 12MTP-male: APC • Polishing connector LC: PC Scope of supply: • Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions • Metal front panel equipped with 12xLC-Duplex adapters and fan-out inserted, rear side two 12MTP-male connectors mounted		
	G.652.D, APC/PC, ceramic, type A, gray	1	R514561
	G.652.D, APC/PC, ceramic, type A, black	1	R514571
	OM3, PC/PC, ceramic	1	R512383
	OM4, PC/PC, ceramic, type A, gray	1	R514565
	OM4, PC/PC, ceramic, type A, black	1	R514575

MPO / MTP® Module

Ordering Information	Description	PU	Part Number
090.3278	**MPO Modul 7HP, metal, 12MTP-male - 6xSC-Duplex** • Polishing connector 12MTP-male: APC • Polishing connector SC: PC Scope of supply: • Slide-in unit, radius limiter radius 35 mm, labeling strips and installation instructions • Metal front panel equipped with 6xSC-Duplex adapters and fan-out inserted, rear side one MTP-male connector mounted		
	G.652.D, APC/PC, ceramic, type A, gray	1	R512385
	OM4, PC/PC, ceramic, type A, gray	1	R514580
	OM4, PC/PC, ceramic, type A, black	1	R514584
090.6638	**MPO Modul HD, MTP-male – 12xLC-Duplex** • Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions • Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side two MTP12-male connectors mounted		
	2xMTP12-male - 12xLC-Duplex, G.652.D, APC/PC, type A, gray	1	R807376
	MTP24-male - 12xLC-Duplex, OM4, PC/PC, type A, gray	1	R807758
	2xMTP12-male - 12xLC-Duplex, G.652.D, APC/PC, type A, black	1	R807752
	2xMTP12-male - 12xLC-Duplex, OM4, PC/PC, type A, black	1	R807753
	MTP24-male - 12xLC-Duplex, OM4, PC/PC, type A, black	1	R807759

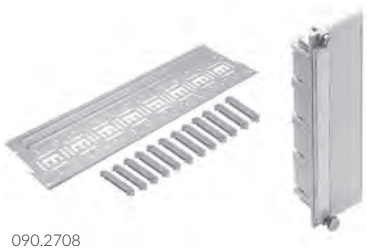
Ordering Information	Description	PU	Part Number
090.6638	**MPO Modul HD, MTP-female – 12x LC-Duplex** • Designed for 19“ 1U HD patch panel • Connectivity method: type A Scope of supply: • Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions • Plastic front panel equipped with 12xLC-Duplex adapters and fan-outs inserted, rear side one MTP24-female connector mounted		
	MTP24-female - 12xLC-Duplex, OM4, PC/PC, type A, gray	1	R515861
	2xMTP12-female - 12xLC-Duplex, G.652.D, APC/PC, type A, gray	1	R515857
	2xMTP12-female - 12xLC-Duplex, OM4, PC/PC, type A, gray	1	R515858
	2xMTP12-female - 12xLC-Duplex, G.652.D, APC/PC, type A, black	1	R515859
	2xMTP12-female - 12xLC-Duplex, OM4, PC/PC, type A, black	1	R515860
	MTP24-female - 12xLC-Duplex, OM4, PC/PC, type A, black	1	R515862
090.6638	**MPO Modul HD, MTP12-female – 6xSC-Duplex** • Designed for 19" 1U HD patch panel • Connectivity method: type A Scope of supply: • Slide-in unit, radius limiter radius 30 mm, labeling strips and installation instructions • Plastic front panel equipped with 6xSC-Duplex adapters and fan-outs inserted, rear side one MTP12-female connector mounted		
	MTP12-female - 6xSC-Duplex, G.652.D, APC/PC, type A, gray	1	R515871
	MTP12-female - 6xSC-Duplex, OM4, PC/PC, type A, gray	1	R515873
	MTP12-female - 6xSC-Duplex, G.652.D, APC/PC, type A, black	1	R515872
	MTP12-female - 6xSC-Duplex, OM4, PC/PC, type A, black	1	R515874

MPO Panel

Features
- Easy handling (plug and play)
- Integrated bending radius limiter
- High packing density, up to 96 connectors per 1U patch panel
- Little mounting depth of 230 mm
- Universally compatible (e.g. ETSI standard compliant)

Other combinations available

Ordering Information	Description	PU	Part Number
090.5827 090.5831	**19" 1U MPO Panel, 8xMTP 12-male - 24xLC-Quad** • Polishing connector MTP male: PC • Polishing connector LC: PC		
	OM3, PC/PC, gray	1	R510856
	OM3, PC/PC, black	1	R510857
 090.6408	**19" 1U Modularpanel 36, 3x7HP** • Patch panel with capacity of up to 3 module, 7HP Scope of supply: • Modularpanel • Fastening kit • Installation instructions Without cover		
	Empty gray	1	R804258
	black	1	R804259
 090.3116	**19" 3U Global Rack FO** Scope of supply: • Global patch panel • 1x insertion guide • Card guiding set • Fastening material		
	Empty	1	R319101

Ordering Information	Description	PU	Part Number
090.2984  090.2708	**Insertion Guide 3U Global Rack FO** Scope of supply: • 19" universal cable shelf • Card guiding kit		
	Insertion Guide 3U Global Rack FO, 144 Fibers	1	R319103
	FiberModul Front Panel 7HP blank Scope of supply: • Front panel 7HP, blind • Labeling strips		
	FiberModul Front Panel 7HP, blind	1	R318528

Trunk Cable/ Harness Cable MPO / MTP®

090.5616

Features

- Backbone installation
- Choice of either both ends with pins (male type) or both ends without pins (female type)
- Choices of MPO/MTP in 12 or 24-fiber connector interface
- Type A (key-up to key-down) connector cable
- Test report supplied with each cable assembly

Other length, cable jacket and polarity on request

Ordering Information	Description	PU	Part Number
090.5616	**Trunk Cable, 12fibers, MTP12-female APC - MTP12-female APC** • Both sides fitted with MTP12-female APC connector • Connector color: black • Frame color: yellow • Fiber: SM E9/125 (OS1, OS2) • Cable: yellow		
	G.652.D, LSZH, type A, 10 m	1	R511908
	G.652.D, LSZH, type A, 20 m	1	R511909
	G.652.D, LSZH, type A, 30 m	1	R511910
090.5618	**Trunk Cable, 12fibers, MTP12-female PC - MTP12-female PC** • Both sides fitted with MTP12-female PC connector • Connector color: black • Frame color: turquoise • Fiber: MM G50/125 (OM3, OM4) • Cable: turquoise		
	OM4, LSZH, type A, 10 m	1	R511917
	OM4, LSZH, type A, 20 m	1	R511918
	OM4, LSZH, type A, 30 m	1	R511919
	OM3, LSZH, type A, 10 m	1	R511914
	OM3, LSZH, type A, 20 m	1	R511915
	OM3, LSZH, type A, 30 m	1	R511916

Harness Cable

Features

- For transition from trunk backbone assemblies to fiber rack system
- MPO/MTP connector on one end, with single-fiber connectors on another end
- Single-fiber connector interface available in LC and SC
- Standard furcation length 0.8 meters
- Delivered with pulling eye on single-fiber connectors side
- Test report supplied with each cable assembly

090.5619

Other length, cable jacket and polarity on request

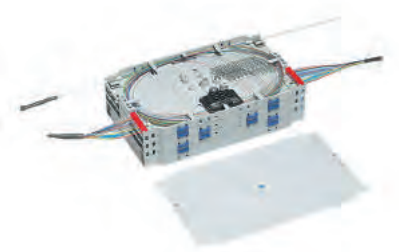
Ordering Information	Description	PU	Part Number
090.5619	**Harness Cable, 12fibers, MTP12-male APC - LC PC 12x** • Fitted with MTP12-male APC and 12 LC PC connector • Connector color MTP: black • Frame color MTP: yellow • Connector color LC: blue • Fiber: SM E9/125 G.652.D (OS1, OS2) • Cable: yellow Scope of supply: • Cable terminated with connectors • Including pulling eye		
	G.652.D, LSZH, 10 m	1	R511923
	G.652.D, LSZH, 20 m	1	R511924
	G.652.D, LSZH, 30 m	1	R511925
090.5621	**Harness Cable, 12fibers, MTP12-male PC - LC PC 12x** • Fitted with MTP12-male PC and 12 LC PC connector • Connector color MTP: black • Frame color MTP: turquoise • Connector color LC: beige • Fiber: MM G50/125 (OM3, OM4) • Cable: turquoise Scope of supply: • Cable terminated with connectors • Including pulling eye		
	OM4, LSZH, 10 m	1	R511932
	OM4, LSZH, 20 m	1	R511933
	OM4, LSZH, 30 m	1	R511934
	OM3, LSZH, 10 m	1	R511929
	OM3, LSZH, 20 m	1	R511930
	OM3, LSZH, 30 m	1	R511931

Ordering Information	Description	PU	Part Number
090.5621	**Harness Cable, 12fibers, MTP12-female PC - LC PC 12x**		
	OM4, LSZH, 10m	1	R804147
	OM4, LSZH, 20m	1	R804148
	OM4, LSZH, 30m	1	R804149
	OM3, LSZH, 10m	1	R804141
	OM3, LSZH, 20m	1	R804142
	OM3, LSZH, 30m	1	R804143

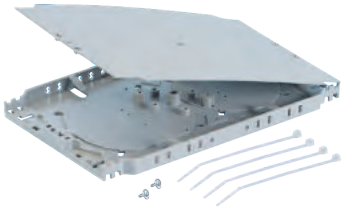
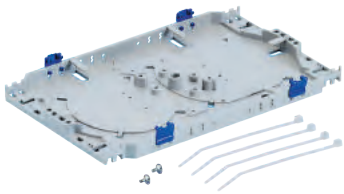
Splice Tray Radius 40 mm

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
- Detachable fiber hold-down plates for large splice holders
- Bending radius 40 mm



090.2043

Ordering Information	Description	PU	Part Number
 010.2789	**Splice Tray Basic Set R40** • To splice and store the first 24 FO terminations • Color: medium gray (NCS 2502-B) • Material: plastic (PC+ABS) • Dimensions: 116x12.5x188 mm (WxHxD) Scope of supply: • 1 splice tray R40 • 1 cover for splice tray R40 • 4 cable ties • 2 screws for splice holder • Installation instructions	1	*R308445*
 010.2790	**Splice Tray Additional Set R40** • For the modular stacking of additional 24 FO terminations per set • Color: medium gray (NCS 2502-B) • Material: plastic (PC+ABS) • Dimensions: 116x10.5x188 mm (WxHxD) Scope of supply: • 1 splice tray R40 • 4 film hinges, small, for stacking • 4 cable ties • 2 screws for splice holder • Installation instructions	1	R308444

Accessories

Ordering Information	Description	PU	Part Number
030.0096.1	**Splice Holder R30/R40, 6x shrink splice protection** • Suitable for splice trays radius 30/35/40 mm • Max. capacity: 6 heat shrink splice protection • Color: black • Material: plastic (POM) • Dimensions: 27x5x37 mm (WxHxD) Scope of supply: • Splice holder • M3 fastening screw plus plastic screw	10	*R30039-06*
	Applicable for heat shrinks with a diameter from 2.3 mm up to 2.7 mm		
090.3285	**Splice Holder R30/R40, 12x shrink splice protection** • Suitable for splice trays radius 30/35/40 mm • Max capacity: 12 (2x6) heat shrink splice protection • Color: black • Material: plastic (POM) • Dimensions: 34x6.2x32 mm (WxHxD) Scope of supply: • Splice holder • M3 fastening screw plus plastic screw	10	R320246
	Applicable for heat shrinks with a diameter from 2.3 mm up to 2.7 mm		

Ordering Information	Description	PU	Part Number
010.2791	**Splice Holder R40, splice protection ANT / shrink splice protection** • Capacity of max. 12x sandwich splice protection or max. 12x heat shrink type 35 mm • Suitable for splice trays 35 mm • Color: medium gray (NCS 2502-B) • Material: plastic (PC+ABS) • Dimension: 30x4.5x72 mm (WxHxD) Scope of supply: • Splice holder • M3 fastening screw plus plastic screw	1	*R308448*
030.0305	**Heat Shrink Splice Protection** • Shrink tube with metal insert **3x65 mm** **3x45 mm** **3x35 mm**	12 50 12	*R30087* R319212 *R30087-35*
090.2988	**Strain Relief 12 Fibers Ø 0.9 mm, red** • For the strain relief of 2x6 fibers of Ø 0.9mm • To snap onto splice trays radius 35 mm • Color: red • Material: plastic (PC) • Dimensions: 12x6.4x25 mm (WxHxD)	10	R320141

ODF Module SCM

Features
- Highest operational reliability
- Comfortable maintanance
- Modular design
- Space saving
- Simple identification of subscriber
- Click-in design for a fast installation
- Scalable investments
- Stress-free fiber management

090.5638

Ordering Information	Description	PU	Part Number
090.5522	**SpliceMODULE ODF** • Complete SpliceMODULE housing with fiber management • Tray brackets for SCM trays • SCM cover set • Installation instructions		
	Empty	1	R510712
090.5523	**PatchMODULE ODF** • Complete PatchMODULE housing with insert bracket • Service table for insert • Installation instructions		
	Empty	1	R510713
090.5529	**CombiMODULE Left ODF** • Complete CombiMODULE housing with fiber management • Tray brackets for SCM trays • SCM cover set • Installation instructions		
	Empty	1	R510714
090.5404	**Splice Tray SCM, SC, 6-fibers** • Single Circuit (SC) tray • Splice holder for 6 heat-shrink or ANT splice protections • With label		
	1x	1	R508434
	12x	12	R508440

19" Splice- / CombiMODULE

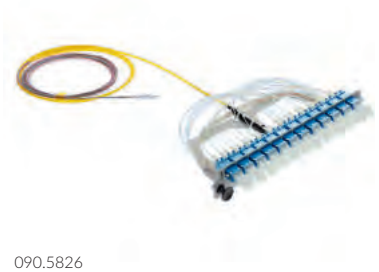
Features
- Highest operational reliability
- Comfortable maintanance
- Stress-free fiber management
- Modular design
- Space saving
- Simple identification of subscriber
- Tool-free installation
- Up to max. 576 patch or up to 1152 splice connections

090.7209

Ordering Information	Description	PU	Part Number
090.7209	**19" 10U CombiMODULE Right ODF, empty** Scope of supply: • Complete CombiMODULE housing with fiber management • Tray brackets for SCM trays • SCM cover set • Installation instructions		R814290
090.7206	**19" 10U CombiMODULE Right ODF, empty** Scope of supply: • Complete CombiMODULE housing with fiber management • Tray brackets for SCM trays • SCM cover set • Installation instructions		R814291

ODF Module SCM

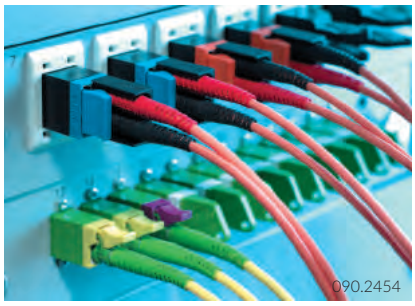
Ordering Information	Description	PU	Part Number
090.6545	**Splice Tray SCM, SC heat shrink, 12-fibers** • Color: telegray (RAL 7047) • Material: plastic (PC+ABS) • Dimensions: 167 x 4.4 x 139 mm (WxHxD) Scope of supply: • Single Circuit (SC) tray • Splice holder for 12 heat-shrink splice protections • With label		
	1x	1	R804270
090.5406	**Splice Tray SCM, SE heat shrink** • Color: telegray (RAL 7047) • Material: plastic (PC+ABS) • Dimensions: 167 x 8.8 x 139 mm (WxHxD) Scope of supply: • Single Element (SE) tray • Splice holder for 24 heat-shrink splice protections • With label		
	24-fibers, 1x	1	R508436
090.5408	**Cover Kit SCM** • Color: Squirrel Gray (RAL 7000) • Material: plastic (PC+ABS) • Dimensions: 170 x 16 x 129 mm (WxHxD) Scope of supply : • Tray for the top SCM tray • Tray hold-up bracket, steel (1.4310) • Fiber-dressing pen, red (RAL 3001) • Laser warning label		
		1	R509162
090.5822	**Blind Cover ODF, patch insert** • Blind cover • Snap-in Clip		
		1	R510719

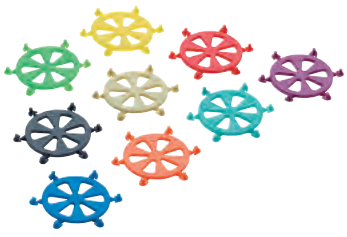
Ordering Information	Description	PU	Part Number
090.5538	**Patch Insert ODF, 12xE-2000™-Compact** • Completely assembled patch insert for installation in the CombiMODULE Scope of supply: • Patch insert with Snap-in Clip • Adapters • System connection cables • Labeling set		
	G.652.D, APC, ceramic, C/1	1	R510729
090.5977	**Patch Insert ODF, 12xE-2000™ - Compact** • Completely assembled patch insert for installation in the CombiMODULE Scope of supply: • Patch insert with Snap-in Clip • Adapters • System connection cables • Labeling set		
	G.652.D, PC, ceramic, C/2	1	R510730
 090.5826	**Patch Insert ODF, 12xLC-Duplex** • Patch insert with Snap-in Clip • Adapters • System connection cables • Labeling set		
	G.652.D, PC, ceramic, C/1	1	R510727

Security System

The R&M security system is based on Smartholes, which are integrated as standard in R&M's platforms for copper and fiber optic connectors. Outlets and patch panels are therefore already prepared for the security installation. The R&M security system consists of three levels:

1. Visual coding
2. Mechanical and visual coding, and
3. Intelligent protection using lock mechanisms and authorization solutions



Ordering Information	Description	PU	Part Number
010.3290	**Color Coding Interbus IP67 type 06, plastic (Level 1)** • Color coding clips suitable for RJ45 IP67 connectors, SC-RJ IP67 connectors and adapter frames Scope of supply: • 50 coding clips, white • 50 coding clips, blue • 50 coding clips, orange • 50 coding clips, yellow	1	R310262
010.3088	**Fiber Guard SC-RJ Adapter (Level 1)** • SC-RJ connection protection for outlets and patch panels • Fitting R&M Smartholes Scope of supply: • Fiber Guard • 1 key per packing unit	12	R310218
 090.7370	**Color Coding LC-Duplex Adapter** • Matching the LC-Duplex adapter, six colour coding per block.		
	Violet	12	R820806
	Blue	12	R820807
	Green	12	R820809
	Red	12	R507808
	Black	12	R820810
	Orange	12	R820811
	Beige	12	R820812
	Yellow	12	R820813
	Turquoise	12	R820814

Ordering Information	Description	PU	Part Number
090.6519	**Color Clip LC Connector (Level 1)** • Simple visual color coding		
	Violet	100	R802930
	Blue	100	R802926
	Green	100	R802925
	Orange	100	R802928
	Beige	100	R802929
	Yellow	100	R802927
090.5199	**Color Clip LC-Duplex Connector (Level 1)** • Simple visual color coding		
	Violet	12	R508101
	Blue	12	R508104
	Green	12	R508098
	Red	12	R508103
	Black	12	R508099
	Orange	12	R508097
	Beige	12	R508105
	Yellow	12	R508102
	Turquoise	12	R508100
090.5031	**Plug Guard LC-Duplex Connector (Level 3)** • Port connection protection • Can be snapped on (tool-free) at any time & be released with matching key • Material: fiberglass-reinforced PBT, halogen-free	12	R508116
090.5034	**Key Plug Guard LC-Duplex Connector (Level 3)** • Release key to LC-Duplex connection protection • Material: fiberglass-reinforced PBT, halogen-free	1	R508117

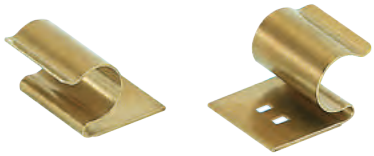
Connection Modules

030.0667

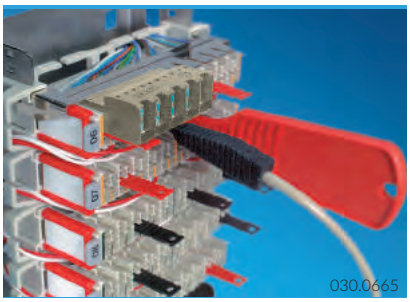
Features

- To snap onto back mount frames or mounting profiles
- Packing density of up to 4200 pairs/m²
- Wiring in IDC technology without expensive tools
- Gold-plated contacts
- Protection components ensure permanent person and equipment protection
- Protection components are plugged in at the front
- Contacts for disconnection and testing at the front
- Module bodies made of one piece

Ordering Information	Description	PU	Part Number
030.0666 030.0667	**8/10-Pair Module** • Grid size: 20 mm Scope of supply: • VS Compact module, printed • Installation instructions • Mini tool (wiring tool)		
	Connection Module 8 pairs (20 mm)	10	R300035
	Disconnection Module 8 pairs (20 mm)	10	R300036
	Normally Open Module 8 pairs (20 mm)	10	R300037
	Connection Module 10 pairs (20 mm)	10	R300039
	Disconnection Module 10 pairs (20 mm)	10	*R300040*
	Normally Open Module 10 pairs (20 mm)	10	R300041
030.0668 030.0669	**16/20-Pair Module** • Grid size: 25 mm Scope of supply: • VS Compact module, printed • Installation instructions • Mini tool (wiring tool)		
	Connection Module 16 pairs (25 mm)	10	R300045
	Disconnection Module 16 pairs (25 mm)	10	R300046
	Normally Open Module 16 pairs (25 mm)	10	R300047
	Connection Module 20 pairs (25 mm)	10	R300049
	Disconnection Module 20 pairs (25 mm)	10	*R300050*
	Normally Open Module 20 pairs (25 mm)	10	R300051

Ordering Information	Description	PU	Part Number
010.2188	**25-Pair Module** • Grid size: 25 mm Scope of supply: • VS Compact module, printed • Installation instructions • Mini tool (wiring tool)		
	Connection Module 25 pairs (25 mm)	10	R300674
	Disconnection Module 25 pairs (25 mm)	10	*R300675*
	Normally Open Module 25 pairs (25 mm)	10	R300757
 010.3058	**Round Profile Adapter Kit** • Used for mounting VS Compact modules of grid size 20/25 mm onto round profiles of ∅ 12mm Scope of supply: • 2 round profile adapters		
		10	R300669

Modules Accessories



Ordering Information	Description	PU	Part Number
030.0674	**Disconnection Plug** • To disconnect the lines between cable side and jumper side in disconnection modules • Material: POM		
	1 pair, black	100	*R300067*
030.0675	**Marking Plug** • To identify individual lines, suitable for all VS Compact modules • Ideal for protection from inadvertent disconnection in disconnection modules • Material: plastic (POM)		
	1 pair, red	100	R300066
030.0678	**Designation Clip** • For the labeling of all VS Compact modules • Can be snapped on at both sides of a module Scope of supply: • 20 designation clips • Labeling sheet		
	Red	20	R300292
	Black	20	R300293
	Yellow	20	R300294
	Blue	20	R300295

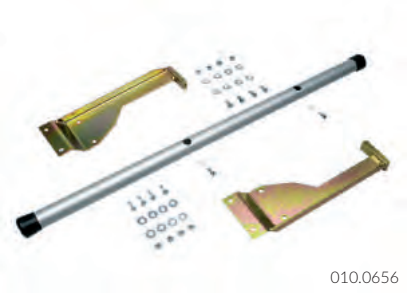
Protection Components
Primary Protection

090.2054

Ordering Information	Description	PU	Part Number
090.2053	**Protection Magazine 1 pair, equipped** • Suitable for all VS Compact modules Scope of supply: • Protection magazine, empty • 3-electrode arrester 6x8 mm, 2x5 kA, 230 V • Installation instructions		
	With arrester without failsafe (FS)	10	R304955
	With arrestor with FS plus FS display	10	R304957
	For overvoltage protection a grounding rail is required		
090.2054	**Protection Magazine 5 pairs, equipped** • Suitable for all VS Compact modules from 5 pairs up Scope of supply: • Protection magazine, empty • Five 3-electrode arresters 6x8 mm, 2x5 kA, 230 V • Installation instructions		
	With arrester without failsafe (FS)	10	R304956
	With arrestor with FS plus FS display	20	R304958
	For overvoltage protection a grounding rail is required		
030.0686a	**Grounding Rail** • Connects protection magazine and ground of the VS Compact back mount frame • The grounding plates are plugged in at the front of the modules		
	8 pairs	10	R300761
	10 pairs	100	R300092
	16 pairs	10	R300094
	20 pairs	10	R300095
	25 pairs	10	R305209

Ordering Information	Description	PU	Part Number
010.1748	**Protection Plug 230 V/150 mA** • 1-pair protection plug featuring 3-electrode arrester (2 x 5 kA, 230 V FS) and 150 mA PTC • Includes measuring and test contact interface • Can be plugged into all VS Compact disconnection and normally open modules in combination with the grounding rail **Subscriber side**	10	R302101

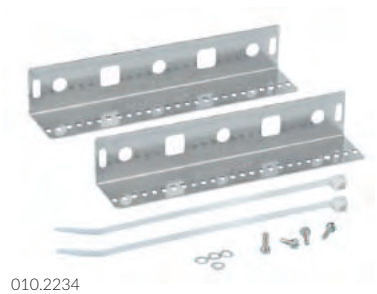
Distribution Frames and Accessories



010.0656

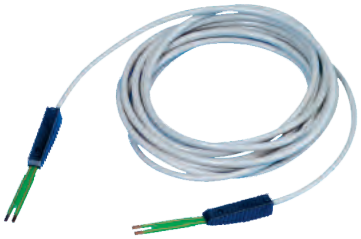
Ordering Information	Description	PU	Part Number
010.1864	**Mounting Profile, 20/25 mm** • Mounting profile (depth x length) • Grid size: 20/25 mm • Material: steel (1.4301)		
	50 x 400 mm	1	R300014
	100 x 1000 mm	1	R301863
	To mount one VS Compact connection module two mounting profiles are required.		
020.1052	**Transfer Ring, large** • For snap-on side mounting to mounting profiles and back mount frames • Min. profile depth required 100 mm		
		1	R301050
030.0758	**Transfer Strap** • To be screwed on at the side of a mounting profile or back mount frame • Min. profile depth required for mounting is 50 mm Scope of supply: • Transfer strap, made of steel (1.4301), chromium-plated • Mounting plate • Edge protection profile • 2 fastening screws M6 x 12 • 2 washers M6 • 2 counternuts M6		
		1	R300025

Ordering Information	Description	PU	Part Number
030.0775	**Label Holder** • For the labeling of blocks and verticals • Directly attachable to mounting profiles • Dimensions: width x grid size (mm) Scope of supply: • Label holder frame and cover • Labeling strips		
	8 pairs, 64x20	10	R300664
	10 pairs, 78x20	10	R300665
	16 pairs, 120x25	10	R300666
	20 pairs, 148x25	10	R300667
	25 pairs, 184x25	10	*R305208*
030.0763	**Wall Rail Kit** • Required for attaching VS Compact mounting profiles to walls Scope of supply: • 2 wall rails (length) • 6 insulating sleeves • 6 insulating disks • 2 end pieces		
	500mm	1	R300768
	1000mm	1	R300769
	1500mm	1	R300770
030.0764	**Mounting Kit 90°** • For the direct attachment of mounting profiles to wall rails Scope of supply: • 4 fastening screws M6 x 12 • 4 washers • 4 slide nuts		
		1	R301058

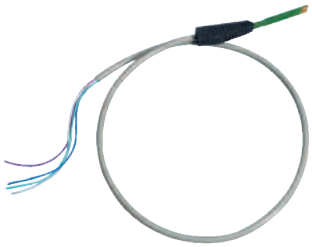
Ordering Information	Description	PU	Part Number
 010.2234	**19" Mounting Profile Kit, 20/25 mm** • Mounting profiles fitting empty 19" 3U sub-racks Maximum capacity: • 6 modules of grid size 20 mm • 5 modules of grid size 25 mm Scope of supply: • 2 mounting profiles for 19" sub-racks • Mounting kit (4 screws, washers) • 2 cable ties, large	1	*R300663*
010.2240	**19" Sub-Rack, 3U** • Used for fastening the mounting profiles for VS Compact modules • The sub-rack accepts 2 to 4 mounting profile kits, depending on module size Maximum capacity: • 4 19" splitter back mount frames • 4 mounting profile kits, 8/10 pairs • 3 mounting profile kits, 16 pairs • 2 mounting profile kits, 20/25 pairs Scope of supply: • 19" sub-rack, empty • Grounding flex plus M5 cable lug • M5 x 10 grounding flex fastening screw • 19" mounting kit (4 screws, plastic washers, cage nuts) • Installation instructions	1	*R300662*

Patch and Connection Cords

The cables are available in different lengths. Terms both Cable and transfer side are possible. Patch cords are (backup) connector side with an additional locking feature.



010.1744

Ordering Information	Description	PU	Part Number
010.1744	**Connection Cord 1 pair** • Fitted with a VS Compact 1-pair test plug on both sides • Contact interface on patching and cable side		
	2.5 m	1	R302604
010.3057	**Patch Cord 1 pair** • Fitted with a VS Compact plug on one end and a RJ45 connector on the other • For direct patching of VS Compact to RJ45		
	VS-RJ45 (3/6), 2.0 m	1	R307232
	VS-RJ45 (4/5), 2.0 m	1	R307231
 030.0677	**Test Cord "Universal"** • Test cord for customer assembly • For use as test adapter to connect all types of test equipment • Contact interface on cable and jumper side • Open cable end		
	2.5 m, without snap-in stop	1	*R300073*

Extensive accessories facilitate testing and troubleshooting, including the location and elevation error.

030.0673c

Ordering Information	Description	PU	Part Number
030.0673a	**Wiring Tool** • For wiring all VS Compact modules • The wires are contacted and cut to length in one single and efficient step • Material: plastic PPE+PS Scope of supply: • One Mini Tool is supplied for free with 10 VS Compact modules.		
	"Mini Tool"	10	R300068
030.0673c	**Wiring Tool** • For wiring all VS Compact modules • The wires are contacted and cut to length in one single and efficient step • Material: plastic (PA66-GF25), chrome-nickel-steel Scope of supply: • Wiring tool recommended for wire diameter 0.8 mm • The tip is made of metal • Features a hook to remove jumper wires from the modules		
	"Comfort Tool"	10	*R300069*

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R509864	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 7.5m	56
R509865	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 10.0m	56
R509866	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 12.5m	56
R509867	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 15.0m	56
R509867	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 20.0m	56

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R807860	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 0.5m	56
R807534	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 1.0m	56
R802653	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 1.5m	56
R802219	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 2.0m	56
R802656	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 3.0m	56
R802657	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 5.0m	56
R806498	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 7.5m	56
R805328	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 10.0m	56
R807861	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 12.5m	56
R805523	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 15.0m	56
R807862	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Green, 20.0m	56
R802635	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 0.5m	56
R802636	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 1.0m	56
R802637	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 1.5m	56
R802638	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 2.0m	56
R802640	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 3.0m	56
R802642	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 5.0m	56
R807824	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 7.5m	56
R807825	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 10.0m	56
R807826	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 12.5m	56
R807827	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 15.0m	56
R807828	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Red, 20.0m	56
R807829	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 0.5m	56
R807533	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 1.0m	56
R802113	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 1.5m	56
R802114	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 2.0m	56
R802174	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 3.0m	56
R802175	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 5.0m	56
R807638	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 7.5m	56
R802177	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 10.0m	56
R807830	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 12.5m	56
R802181	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 15.0m	56
R807643	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Yellow, 20.0m	56
R807831	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 0.5m	56
R802097	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 1.0m	56
R802258	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 1.5m	56
R802260	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 2.0m	56
R802262	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 3.0m	56
R802267	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 5.0m	56
R807832	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 7.5m	56
R805329	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 10.0m	56
R807833	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 12.5m	56
R807834	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 15.0m	56
R807835	Patch Cord Cat. 6A ISO, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Blue, 20.0m	56
R509869	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 0.5m	56
R509870	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 1.0m	56
R509871	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 1.5m	56
R509872	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 2.0m	56
R509873	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 3.0m	56
R509874	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 5.0m	56
R509875	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 7.5m	56
R509876	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 10.0m	56
R509877	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 12.5m	56
R509878	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 15.0m	56
R509879	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 20.0m	56
R806299	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 0.5m	56
R808869	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green,1.0m	56
R806300	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 1.5m	56
R806301	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 2.0m	56
R808430	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 3.0m	56
R806302	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 5.0m	56
R808431	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 7.5m	56
R806303	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 10.0m	56
R811471	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 12.5m	56
R811472	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 15.0m	56
R811473	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 20.0m	56
R806304	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 0.5m	56
R808052	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 1.0m	56
R806305	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 1.5m	56
R806306	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 2.0m	56
R808868	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 3.0m	56
R806307	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 5.0m	56
R811467	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 7.5m	56
R806308	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 10.0m	56
R811468	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 12.5m	56
R811469	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 15.0m	56
R811470	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 20.0m	56
R809255	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 0.5m	56
R802024	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 1.0m	56
R809592	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 1.5m	56
R807941	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 2.0m	56

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R802027	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 5.0m	56
R811463	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 7.5m	56
R802029	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 10.0m	56
R811464	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 12.5m	56
R811465	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 15.0m	56
R811466	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 20.0m	56
R802564	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 0.5m	56
R808053	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 1.0m	56
R808867	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 1.5m	56
R807940	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 2.0m	56
R802965	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 3.0m	56
R808420	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 5.0m	56
R808419	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 7.5m	56
R808423	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 10.0m	56
R811461	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 12.5m	56
R808421	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 15.0m	56
R808422	Patch Cord Cat. 6A ISO, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 20.0m	56
R831821	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 0.5m	54
R830749	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 1.0m	54
R830823	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 1.5m	54
R830750	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 2.0m	54
R830751	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 3.0m	54
R830752	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 5.0m	54
R831822	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 7.5m	54
R831823	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 10.0m	54
R831824	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 12.5m	54
R831825	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH,RJ45/s-RJ45/s, Gray, 15.0m	54
R834163	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 0.5m	54
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R834164	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 1.5m	54
R830766	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 2.0m	54
R830767	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 3.0m	54
R830768	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 5.0m	54
R834165	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 7.5m	54
R834166	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 10.0m	54
R834167	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 12.5m	54
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R834169	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 0.5m	54
R830757	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 1.0m	54
R834170	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 1.5m	54
R830758	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 2.0m	54
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R830760	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 5.0m	54
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R834175	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 0.5m	54
R830753	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 1.0m	54
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R830755	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 3.0m	54
R830756	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 5.0m	54
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R834180	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 15.0m	54
R834181	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 0.5m	54
R830761	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 1.0m	54
R834182	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 1.5m	54
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R834184	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 10.0m	54
R834185	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 12.5m	54
R834186	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 15.0m	54
R837725	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 0.5m	54
R830769	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 1.0m	54
R837727	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 1.5m	54
R830770	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 2.0m	54
R830771	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 3.0m	54
R830772	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 5.0m	54
R837729	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 7.5m	54
R837730	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 10.0m	54
R837731	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 12.5m	54
R837732	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 15.0m	54
R837733	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 0.5m	54
R830773	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 1.0m	54
R837734	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 1.5m	54
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R830776	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 5.0m	54
R837735	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 7.5m	54
R837736	Patch Cord EL Cat. 6A, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 10.0m	54
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R834187	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 0.5m	54
R830779	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 1.0m	54
R830824	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 1.5m	54
R830780	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 2.0m	54
R830781	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 3.0m	54
R830783	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 5.0m	54
R834188	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 7.5m	54
R834189	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 10.0m	54
R834190	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 12.5m	54
R834191	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Gray, 15.0m	54
R834192	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 0.5m	54
R830809	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 1.0m	54
R834193	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 1.5m	54
R830810	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 2.0m	54
R830811	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 3.0m	54
R830812	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 5.0m	54
R834194	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 7.5m	54
R834195	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 10.0m	54
R834196	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 12.5m	54
R834197	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Green, 15.0m	54
R834198	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 0.5m	54
R830801	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 1.0m	54
R834199	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 1.5m	54
R830802	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 2.0m	54
R830803	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 3.0m	54
R830804	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 5.0m	54
R834200	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 7.5m	54
R834201	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 10.0m	54
R834202	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 12.5m	54
R834203	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Red, 15.0m	54
R834204	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 0.5m	54
R830784	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 1.0m	54
R834205	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 1.5m	54
R830798	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 2.0m	54
R830799	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 3.0m	54
R830800	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 5.0m	54
R834206	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 7.5m	54
R834207	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 10.0m	54
R834208	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 12.5m	54
R834209	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Yellow, 15.0m	54
R834210	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 0.5m	54
R830805	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 1.0m	54
R834211	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 1.5m	54
R830806	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 2.0m	54
R830807	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 3.0m	54
R830808	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 5.0m	54
R834212	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 7.5m	54
R834213	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 10.0m	54
R834214	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 12.5m	54
R834215	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Blue, 15.0m	54
R837739	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 0.5m	54
R830813	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 1.0m	54
R837740	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 1.5m	54
R830814	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 2.0m	54
R830815	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 3.0m	54
R830816	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 5.0m	54
R837741	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 7.5m	54
R837742	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 10.0m	54
R837743	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 12.5m	54
R837744	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Orange, 15.0m	54
R837745	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 0.5m	54
R830817	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 1.0m	54
R837746	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 1.5m	54
R830818	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 2.0m	54
R830819	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 3.0m	54
R830820	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 5.0m	54
R837747	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 7.5m	54
R837748	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 10.0m	54
R837749	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 12.5m	54
R837750	Patch Cord EL Cat. 6A, U/UTP, 4P, LSZH, RJ45/u-RJ45/u, Black, 15.0m	54
R834216	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 0.5m	55
R830557	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 1.0m	55
R830821	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 1.5m	55
R830691	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 2.0m	55

Part No	Product	Page No
R830692	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 3.0m	55
R830693	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 5.0m	55
R834217	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 7.5m	55
R834218	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 10.0m	55
R834219	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 12.5m	55
R834220	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Gray, 15.0m	55
R834221	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 0.5m	55
R830707	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 1.0m	55
R834222	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 1.5m	55
R830708	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 2.0m	55
R830709	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 3.0m	55
R830710	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 5.0m	55
R834223	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 7.5m	55
R834224	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 10.0m	55
R834225	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 12.5m	55
R834226	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Green, 15.0m	55
R834227	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 0.5m	55
R830698	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 1.0m	55
R834228	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 1.5m	55
R830699	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 2.0m	55
R830700	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 3.0m	55
R830701	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 5.0m	55
R834229	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 7.5m	55
R834230	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 10.0m	55
R834231	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 12.5m	55
R834232	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Red, 15.0m	55
R834233	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 0.5m	55
R830694	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 1.0m	55
R834234	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 1.5m	55
R830695	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 2.0m	55
R830696	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 3.0m	55
R830697	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 5.0m	55
R834235	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 7.5m	55
R834236	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 10.0m	55
R834237	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 12.5m	55
R834238	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Yellow, 15.0m	55
R834239	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 0.5m	55
R830702	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 1.0m	55
R834240	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 1.5m	55
R830703	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 2.0m	55
R830704	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 3.0m	55
R830705	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 5.0m	55
R834241	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 7.5m	55
R834242	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 10.0m	55
R834243	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 12.5m	55
R834244	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Blue, 15.0m	55
R837618	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 0.5m	55
R830711	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 1.0m	55
R837619	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 1.5m	55
R830712	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 2.0m	55
R837618	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 3.0m	55
R830714	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 5.0m	55
R837620	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 7.5m	55
R837621	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 10.0m	55
R837622	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 12.5m	55
R837623	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Orange, 15.0m	55
R837624	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 0.5m	55
R830715	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 1.0m	55
R837625	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 1.5m	55
R830716	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 2.0m	55
R830717	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 3.0m	55
R830718	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 5.0m	55
R837626	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 7.5m	55
R837627	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 10.0m	55
R837628	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 12.5m	55
R837629	Patch Cord EL Cat. 6, U/FTP, 4P, LSZH, RJ45/s-RJ45/s, Black, 15.0m	55
R831818	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 0.5m	55
R830719	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 1.0m	55
R830822	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 1.5m	55
R830720	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 2.0m	55
R830721	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 3.0m	55
R830722	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 5.0m	55
R830959	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 7.5m	55
R830960	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 10.0m	55
R831819	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 12.5m	55
R831820	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Gray, 15.0m	55
R834245	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 0.5m	55
R830735	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 1.0m	55
R834246	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 1.5m	55
R830736	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 2.0m	55
R830737	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 3.0m	55
R830738	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 5.0m	55
R834247	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 7.5m	55
R834248	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 10.0m	55
R834249	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 12.5m	55
R834250	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Green, 15.0m	55
R834251	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 0.5m	55
R830727	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 1.0m	55
R834252	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 1.5m	55
R830728	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 2.0m	55
R830729	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 3.0m	55
R830730	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 5.0m	55
R834253	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 7.5m	55
R834254	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 10.0m	55
R834255	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 12.5m	55
R834256	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Red, 15.0m	55
R834257	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 0.5m	55
R830723	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 1.0m	55
R834258	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 1.5m	55
R830724	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 2.0m	55
R830725	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 3.0m	55
R830726	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 5.0m	55
R834259	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 7.5m	55
R834260	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 10.0m	55
R834261	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 12.5m	55
R834262	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Yellow, 15.0m	55
R834263	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 0.5m	55
R830731	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 1.0m	55
R834264	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 1.5m	55
R830732	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 2.0m	55
R830733	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 3.0m	55
R830734	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 5.0m	55
R834265	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 7.5m	55
R834266	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 10.0m	55
R834267	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 12.5m	55
R834268	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Blue, 15.0m	55
R837630	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 0.5m	55
R830739	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 1.0m	55
R837631	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 1.5m	55
R830740	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 2.0m	55
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R830742	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 5.0m	55
R837632	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 7.5m	55
R837633	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 10.0m	55
R837634	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 12.5m	55
R837635	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Orange, 15.0m	55
R837636	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 0.5m	55
R830743	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 1.0m	55
R837637	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 1.5m	55
R830744	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 2.0m	55
R830745	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 3.0m	55
R830748	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 5.0m	55
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R837640	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 12.5m	55
R837641	Patch Cord EL Cat. 6, U/UTP, 4P, PVC, RJ45/u-RJ45/u, Black, 15.0m	55
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R302333	Patch Cord Real10 Cat. 6, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 1.5m	57
R302334	Patch Cord Real10 Cat. 6, S/FTP, 4P, LSFRZH, RJ45/s-RJ45/s, Gray, 2.0m	57
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R323039	Patch Cord, ST, 50/125 (OM3), 1m	96
R323040	Patch Cord, ST, 50/125 (OM3), 2m	96
R323041	Patch Cord, ST, 50/125 (OM3), 3m	96
R323042	Patch Cord, ST, 50/125 (OM3), 5m	96
R800354	Patch Cord, ST, 50/125 (OM3), 10m	96
R800308	Patch Cord, ST, 9/125, OS1 (PC), 1m	96
R317534	Patch Cord, ST, 9/125, OS1 (PC), 2m	96
R317535	Patch Cord, ST, 9/125, OS1 (PC), 3m	96
R317536	Patch Cord, ST, 9/125, OS1 (PC), 5m	96
R800311	Patch Cord, ST, 9/125, OS1 (PC), 10m	96
R806542	Patch Cord, ST, SC Duplex, 50/125 (OM4), 1m	96
R806153	Patch Cord, ST, SC Duplex, 50/125 (OM4), 2m	96
R806553	Patch Cord, ST, SC Duplex, 50/125 (OM4), 3m	96
R806554	Patch Cord, ST, SC Duplex, 50/125 (OM4), 5m	96
R806555	Patch Cord, ST,SC Duplex, 50/125 (OM4), 10m	96
R303970	Patch Cord, ST, SC Duplex, 50/125 (OM2), 1m	96
R303971	Patch Cord, ST, SC Duplex, 50/125 (OM2), 2m	96
R303972	Patch Cord, ST, SC Duplex, 50/125 (OM2), 3m	96
R303974	Patch Cord, ST, SC Duplex, 50/125 (OM2), 5m	96
R800356	Patch Cord, ST, SC Duplex, 50/125 (OM2), 10m	96
R800299	Patch Cord, ST, SC Duplex, 50/125 (OM3), 1m	97
R800032	Patch Cord, ST, SC Duplex, 50/125 (OM3), 2m	97
R800300	Patch Cord, ST, SC Duplex, 50/125 (OM3), 3m	97
R800301	Patch Cord, ST, SC Duplex, 50/125 (OM3), 5m	97
R800302	Patch Cord, ST, SC Duplex, 50/125 (OM3), 10m	97
R800303	Patch Cord, ST, SC Duplex, 9/125, OS1 (PC), 1m	97
R800304	Patch Cord, ST, SC Duplex, 9/125, OS1 (PC), 2m	97
R800305	Patch Cord, ST, SC Duplex, 9/125, OS1 (PC), 3m	97
R800306	Patch Cord, ST, SC Duplex, 9/125, OS1 (PC), 5m	97
R800307	Patch Cord, ST, SC Duplex, 9/125, OS1 (PC), 10m	97
R802541	Patch Cord, SC Duplex, 50/125 (OM4), 1m	96
R802544	Patch Cord, SC Duplex, 50/125 (OM4), 2m	96
R802545	Patch Cord, SC Duplex, 50/125 (OM4), 3m	96
R802546	Patch Cord, SC Duplex, 50/125 (OM4), 5m	96
R803984	Patch Cord, SC Duplex, 50/125 (OM4), 10m	96
R303980	Patch Cord, SC Duplex, 50/125 (OM2), 1m	96
R303981	Patch Cord, SC Duplex, 50/125 (OM2), 2m	96
R303982	Patch Cord, SC Duplex, 50/125 (OM2), 3m	96
R303984	Patch Cord, SC Duplex, 50/125 (OM2), 5m	96
R800358	Patch Cord, SC Duplex, 50/125 (OM2), 10m	96
R323043	Patch Cord, SC Duplex, 50/125 (OM3), 1m	97
R323044	Patch Cord, SC Duplex, 50/125 (OM3), 2m	97
R800835	Patch Cord, SC Duplex, 50/125 (OM3), 3m	97
R323046	Patch Cord, SC Duplex, 50/125 (OM3), 5m	97
R800359	Patch Cord, SC Duplex, 50/125 (OM3), 10m	97
R313027	Patch Cord, SC Duplex, 9/125, OS1 (PC), 1m	97
R303343	Patch Cord, SC Duplex, 9/125, OS1 (PC), 2m	97
R303344	Patch Cord, SC Duplex, 9/125, OS1 (PC), 3m	97
R303346	Patch Cord, SC Duplex, 9/125, OS1 (PC), 5m	97
R313414	Patch Cord, SC Duplex, 9/125, OS1 (PC), 10m	97
R806556	Patch Cord, ST, SC-RJ, 50/125 (OM4), 1m	97

Part No	Product	Page No
R806557	Patch Cord, ST, SC-RJ, 50/125 (OM4), 2m	97
R806558	Patch Cord, ST, SC-RJ, 50/125 (OM4), 3m	97
R806559	Patch Cord, ST, SC-RJ, 50/125 (OM4), 5m	97
R806560	Patch Cord, ST, SC-RJ, 50/125 (OM4), 10m	97
R300131	Patch Cord, ST, SC-RJ, 50/125 (OM2), 1m	97
R300132	Patch Cord, ST, SC-RJ, 50/125 (OM2), 2m	97
R300133	Patch Cord, ST, SC-RJ, 50/125 (OM2), 3m	97
R300135	Patch Cord, ST, SC-RJ, 50/125 (OM2), 5m	97
R800361	Patch Cord, ST, SC-RJ, 50/125 (OM2), 10m	97
R800312	Patch Cord, ST, SC-RJ, 50/125 (OM3), 1m	97
R800313	Patch Cord, ST, SC-RJ, 50/125 (OM3), 2m	97
R800314	Patch Cord, ST, SC-RJ, 50/125 (OM3), 3m	97
R800315	Patch Cord, ST, SC-RJ, 50/125 (OM3), 5m	97
R800316	Patch Cord, ST, SC-RJ, 50/125 (OM3), 10m	97
R800317	Patch Cord, ST, SC-RJ, 9/125, OS1, (PC), 1m	97
R800318	Patch Cord, ST, SC-RJ, 9/125, OS1, (PC), 2m	97
R800319	Patch Cord, ST, SC-RJ, 9/125, OS1, (PC), 3m	97
R800320	Patch Cord, ST, SC-RJ, 9/125, OS1, (PC), 5m	97
R800321	Patch Cord, ST, SC-RJ, 9/125, OS1, (PC), 10m	97
R806561	Patch Cord, SC Duplex SC-RJ, 50/125 (OM4), 1m	97
R804980	Patch Cord, SC Duplex SC-RJ, 50/125 (OM4), 2m	97
R804981	Patch Cord, SC Duplex SC-RJ, 50/125 (OM4), 3m	97
R806562	Patch Cord, SC Duplex SC-RJ, 50/125 (OM4), 5m	97
R806563	Patch Cord, SC Duplex SC-RJ, 50/125 (OM4), 10m	97
R300121	Patch Cord, SC Duplex SC-RJ, 50/125 (OM2), 1m	97
R300122	Patch Cord, SC Duplex SC-RJ, 50/125 (OM2), 2m	97
R300123	Patch Cord, SC Duplex SC-RJ, 50/125 (OM2), 3m	97
R300125	Patch Cord, SC Duplex SC-RJ, 50/125 (OM2), 5m	97
R800363	Patch Cord, SC Duplex SC-RJ, 50/125 (OM2), 10m	97
R800322	Patch Cord, SC Duplex SC-RJ, 50/125 (OM3), 1m	97
R800324	Patch Cord, SC Duplex SC-RJ, 50/125 (OM3), 2m	97
R800325	Patch Cord, SC Duplex SC-RJ, 50/125 (OM3), 3m	97
R800326	Patch Cord, SC Duplex SC-RJ, 50/125 (OM3), 5m	97
R800327	Patch Cord, SC Duplex SC-RJ, 50/125 (OM3), 10m	97
R800331	Patch Cord, SC Duplex SC-RJ, 9/125, OS1, (PC), 1m	97
R800332	Patch Cord, SC Duplex SC-RJ, 9/125, OS1, (PC), 2m	97
R800333	Patch Cord, SC Duplex SC-RJ, 9/125, OS1, (PC), 3m	97
R800334	Patch Cord, SC Duplex SC-RJ, 9/125, OS1, (PC), 5m	97
R800335	Patch Cord, SC Duplex SC-RJ, 9/125, OS1, (PC), 10m	97
R802561	Patch Cord, SC-RJ, 50/125 (OM4), 1m	97
R802563	Patch Cord, SC-RJ, 50/125 (OM4), 2m	97
R802565	Patch Cord, SC-RJ, 50/125 (OM4), 3m	97
R802567	Patch Cord, SC-RJ, 50/125 (OM4), 5m	97
R806564	Patch Cord, SC-RJ, 50/125 (OM4), 10m	97
R319877	Patch Cord, SC-RJ, 50/125 (OM2), 1m	97
R319976	Patch Cord, SC-RJ, 50/125 (OM2), 2m	97
R319977	Patch Cord, SC-RJ, 50/125 (OM2), 3m	97
R319975	Patch Cord, SC-RJ, 50/125 (OM2), 5m	97
R818182	Patch Cord, SC-RJ, 50/125 (OM2), 10m	97
R323023	Patch Cord, SC-RJ, 50/125 (OM3), 1m	97
R323024	Patch Cord, SC-RJ, 50/125 (OM3), 2m	97
R323025	Patch Cord, SC-RJ, 50/125 (OM3), 3m	97
R323026	Patch Cord, SC-RJ, 50/125 (OM3), 5m	97
R818181	Patch Cord, SC-RJ, 50/125 (OM3), 10m	97
R319878	Patch Cord, SC-RJ, 9/125, OS1 (PC), 1m	97
R319879	Patch Cord, SC-RJ, 9/125, OS1 (PC), 2m	97
R319965	Patch Cord, SC-RJ, 9/125, OS1 (PC), 3m	97
R319966	Patch Cord, SC-RJ, 9/125, OS1 (PC), 5m	97
R818180	Patch Cord, SC-RJ, 9/125, OS1 (PC), 10m	97
R806565	Patch Cord, ST, LC, 50/125 (OM4), 1m	97
R806566	Patch Cord, ST, LC, 50/125 (OM4), 2m	97
R806567	Patch Cord, ST, LC, 50/125 (OM4), 3m	97
R806568	Patch Cord, ST, LC, 50/125 (OM4), 5m	97
R806569	Patch Cord, ST, LC, 50/125 (OM4), 10m	97
R800289	Patch Cord, ST, LC, 50/125 (OM2), 1m	97
R312986	Patch Cord, ST, LC, 50/125 (OM2), 2m	97
R313136	Patch Cord, ST, LC, 50/125 (OM2), 3m	97
R800290	Patch Cord, ST, LC, 50/125 (OM2), 5m	97
R800291	Patch Cord, ST, LC, 50/125 (OM2), 10m	97
R800292	Patch Cord, ST, LC, 50/125 (OM3), 1m	97
R800023	Patch Cord, ST, LC, 50/125 (OM3), 2m	97
R800024	Patch Cord, ST, LC, 50/125 (OM3), 3m	97
R800025	Patch Cord, ST, LC, 50/125 (OM3), 5m	97
R800293	Patch Cord, ST, LC, 50/125 (OM3), 10m	97
R800294	Patch Cord, ST, LC, 9/125 (PC), 1m	97
R800295	Patch Cord, ST, LC, 9/125 (PC), 2m	97
R800296	Patch Cord, ST, LC, 9/125 (PC), 3m	97
R800297	Patch Cord, ST, LC, 9/125 (PC), 5m	97
R800298	Patch Cord, ST, LC, 9/125 (PC), 10m	97
R802766	Patch Cord, SC Duplex, LC, 50/125 (OM4), 1m	97
R802767	Patch Cord, SC Duplex, LC, 50/125 (OM4), 2m	97
R804042	Patch Cord, SC Duplex, LC, 50/125 (OM4), 3m	97
R804692	Patch Cord, SC Duplex, LC, 50/125 (OM4), 5m	97
R805017	Patch Cord, SC Duplex, LC, 50/125 (OM4), 10m	97
R310290	Patch Cord, SC Duplex, LC, 50/125 (OM2), 1m	97
R308947	Patch Cord, SC Duplex, LC, 50/125 (OM2), 2m	97
R308948	Patch Cord, SC Duplex, LC, 50/125 (OM2), 3m	97
R308949	Patch Cord, SC Duplex, LC, 50/125 (OM2), 5m	97
R800366	Patch Cord, SC Duplex, LC, 50/125 (OM2), 10m	97
R323059	Patch Cord, SC Duplex, LC, 50/125 (OM3), 1m	97
R323060	Patch Cord, SC Duplex, LC, 50/125 (OM3), 2m	97
R323061	Patch Cord, SC Duplex, LC, 50/125 (OM3), 3m	97
R323062	Patch Cord, SC Duplex, LC, 50/125 (OM3), 5m	97
R800121	Patch Cord, SC Duplex, LC, 50/125 (OM3), 10m	97
R800378	Patch Cord, SC Duplex, LC, 9/125 (PC), 1m	97
R308913	Patch Cord, SC Duplex, LC, 9/125 (PC), 2m	97
R308914	Patch Cord, SC Duplex, LC, 9/125 (PC), 3m	97
R308915	Patch Cord, SC Duplex, LC, 9/125 (PC), 5m	97
R313410	Patch Cord, SC Duplex, LC, 9/125 (PC), 10m	97
R806570	Patch Cord, SC-RJ, LC, 50/125 (OM4), 1m	97
R804978	Patch Cord, SC-RJ, LC, 50/125 (OM4), 2m	97
R804979	Patch Cord, SC-RJ, LC, 50/125 (OM4), 3m	97
R806571	Patch Cord, SC-RJ, LC, 50/125 (OM4), 5m	97
R806572	Patch Cord, SC-RJ, LC, 50/125 (OM4), 10m	97
R310289	Patch Cord, SC-RJ, LC, 50/125 (OM2), 1m	97
R308944	Patch Cord, SC-RJ, LC, 50/125 (OM2), 2m	97
R308945	Patch Cord, SC-RJ, LC, 50/125 (OM2), 3m	97
R308946	Patch Cord, SC-RJ, LC, 50/125 (OM2), 5m	97
R800371	Patch Cord, SC-RJ, LC, 50/125 (OM2), 10m	97
R800238	Patch Cord, SC-RJ, LC, 50/125 (OM3), 1m	97
R800672	Patch Cord, SC-RJ, LC, 50/125 (OM3), 2m	97
R800112	Patch Cord, SC-RJ, LC, 50/125 (OM3), 3m	97
R803255	Patch Cord, SC-RJ, LC, 50/125 (OM3), 5m	97
R800114	Patch Cord, SC-RJ, LC, 50/125 (OM3), 10m	97
R800346	Patch Cord, SC-RJ, LC, 9/125, OS1, (PC), 1m	97
R800347	Patch Cord, SC-RJ, LC, 9/125, OS1, (PC), 2m	97
R800348	Patch Cord, SC-RJ, LC, 9/125, OS1, (PC), 3m	97
R800349	Patch Cord, SC-RJ, LC, 9/125, OS1, (PC), 5m	97
R800350	Patch Cord, SC-RJ, LC, 9/125, OS1, (PC), 10m	97
R802250	Patch Cord, LC, 50/125 (OM4), 1m	97
R802251	Patch Cord, LC, 50/125 (OM4), 2m	97
R802252	Patch Cord, LC, 50/125 (OM4), 3m	97
R802253	Patch Cord, LC, 50/125 (OM4), 5m	97
R805239	Patch Cord, LC, 50/125 (OM4), 10m	97
R310292	Patch Cord, LC, 50/125 (OM2), 1m	97
R308938	Patch Cord, LC, 50/125 (OM2), 2m	97
R308939	Patch Cord, LC, 50/125 (OM2), 3m	97
R308940	Patch Cord, LC, 50/125 (OM2), 5m	97
R800373	Patch Cord, LC, 50/125 (OM2), 10m	97
R323063	Patch Cord, LC, 50/125 (OM3), 1m	97
R323064	Patch Cord, LC, 50/125 (OM3), 2m	97
R323066	Patch Cord, LC, 50/125 (OM3), 3m	97
R323066	Patch Cord, LC, 50/125 (OM3), 5m	97
R323111	Patch Cord, LC, 50/125 (OM3), 10m	97
R800060	Patch Cord, LC, 9/125, OS1 (PC), 1m	97
R308903	Patch Cord, LC, 9/125, OS1 (PC), 2m	97
R308904	Patch Cord, LC, 9/125, OS1 (PC), 3m	97
R308905	Patch Cord, LC, 9/125, OS1 (PC), 5m	97
R313412	Patch Cord, LC, 9/125, OS1 (PC), 10m	97
R802913	Patch Cord, Pigtail, ST, 50/125, (OM4), 2.5m	96
R307299	Patch Cord, Pigtail, ST, 50/125, (OM2), 2.5m	96
R307387	Patch Cord, Pigtail, ST, 50/125, (OM3), 2.5m	96
R313152	Patch Cord, Pigtail, ST, 9/125, OS1 (PC), 2.5m	96
R802912	Patch Cord, Pigtail, SC-Duplex, 50/125, (OM4), 2.5m	96
R301461	Patch Cord, Pigtail, SC-Duplex, 50/125, (OM2), 2.5m	96
R307388	Patch Cord, Pigtail, SC-Duplex, 50/125, (OM3), 2.5m	97
R31014	Patch Cord, Pigtail, SC-Duplex, 9/125, OS1 (PC), 2.5m	97
R803549	Patch Cord, Pigtail, LC, 50/125, (OM4), 2.5m	97
R803547	Patch Cord, Pigtail, LC, 50/125, (OM2), 2.5m	97
R303548	Patch Cord, Pigtail, LC, 50/125, (OM3), 2.5m	97
R303544	Patch Cord, Pigtail, LC, 9/125, OS1 (PC), 2.5m	97

Patch Panels / Modules - Matrix

Description	InteliPhy Ready	Unit Height	Security level	Page No.	Freenet	Snap-In	Special
16 port panel, Flat		1	1, 2, 3	-	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-	-
24 port basic, Metal, Staggered		1	1	31	-	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-
24 port, Metal, Staggered		1	1	30-31	-	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-
24 port, Angled, Metals, Staggered		1	1	33-34	-	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-
24 port, Polycarbonate, Staggered		1	1		-	-	Cat. 6, Cat. 5e
24 port, Polycarbonate, Flat	Y	1	1	28-29	-	-	Cat. 6_A EL, Cat. 6_A ISO
48 port, Basic, HD, Metal, Flat	Y	1	1, 3	36	-	-	Cat. 6_A ISO
48 port, HD, Metal, Flat	Y	1	1, 3	35	-	-	Cat. 6_A ISO
48 port, Global, Vertical		2	1, 2, 3	39-42	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-	-
48 port, Global, Vertical		3	1, 2, 3	43-49	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-	-
60 port, Global, Vertical		3	1, 2, 3	43-49	Cat. 6_A EL, Cat. 6_A ISO, Cat. 6, Cat. 5e	-	-

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