Telegärtner



DataVoice
Industry

Product Catalogue Industrial Connectors

All products are shown in our
online catalogue
www.telegaertner.com

Publisher

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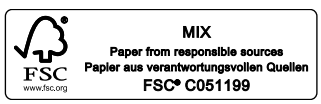
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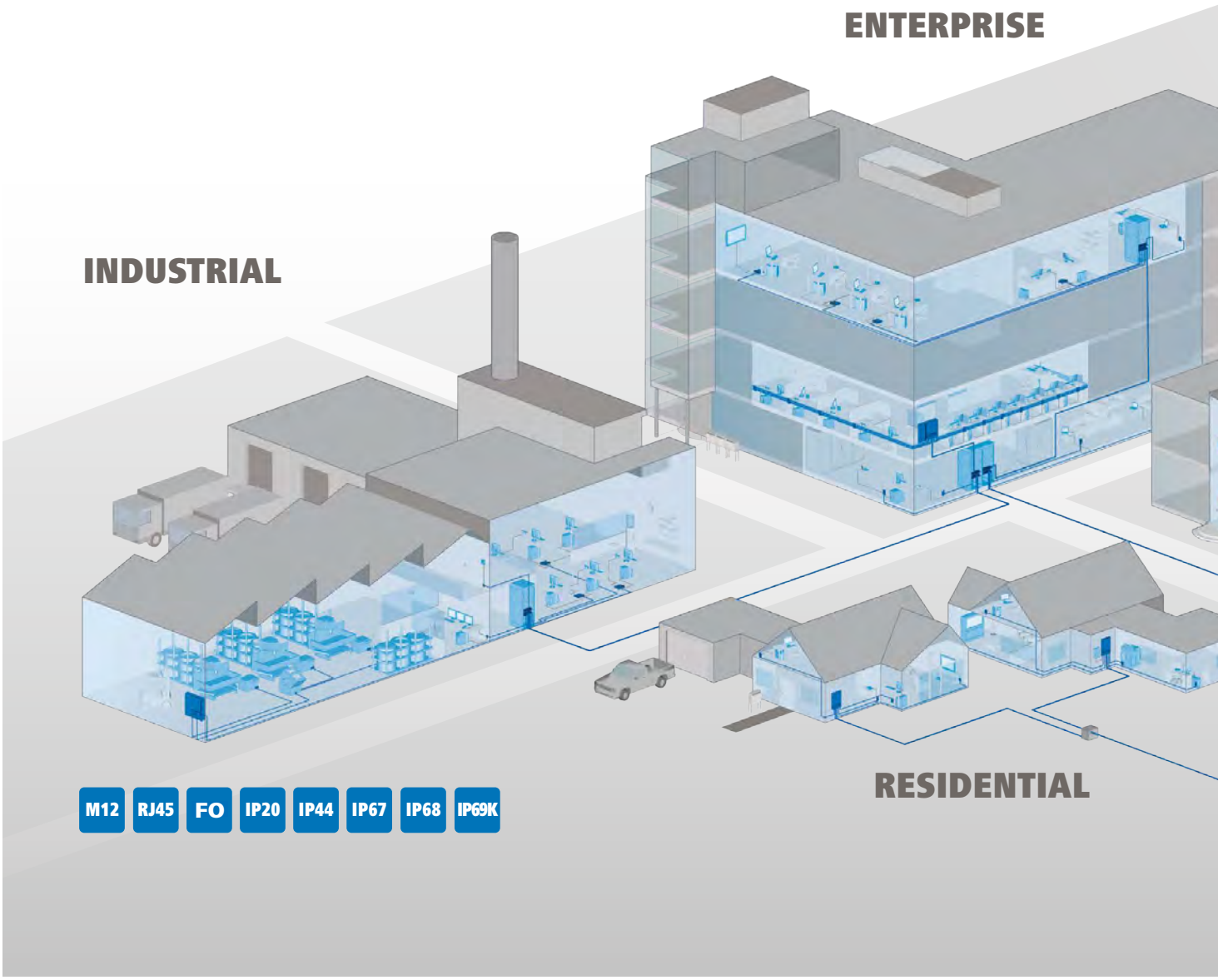




DATA VOICE – THE CABLING SYSTEM WITH PLUS POINTS

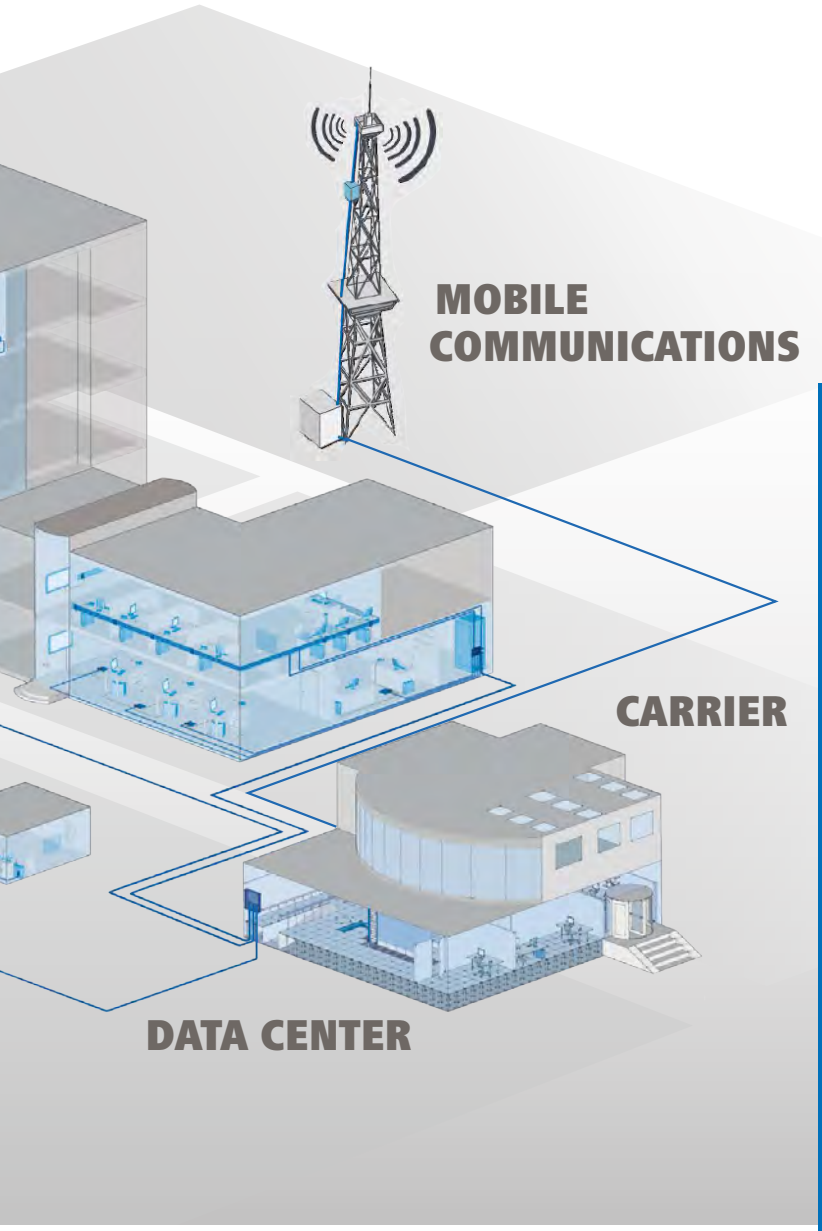
Professional Cabling System for Generic Cabling

DataVoice is a reliable professional cabling system for designers, installers and users developed by Telegärtner to meet all generic cabling requirements in office buildings, production halls and machines. The DataVoice range includes components for copper and fiber optic cable networks and connectors for industrial applications. The Enterprise product line ranges from connection and distribution components for optical transmission systems and pre-terminated fiber optic cables right through to powerful copper cabling components.



Whether your requirements are for on the factory floor or for the wiring machinery: with our extremely reliable RJ45 connectivity systems, DataVoice offers everything you require for modern 10 gigabit networks in the industrial environment of production areas and machinery wiring.

Our product offering is complemented with cable assemblies - for a complete generic cabling system.



DataVoice
The Cabling System with PLUS POINTS for …

…Power
Guaranteed data rates of up to 400 Gbit/s with fiber optics and 40 Gbit/s with copper thanks to cutting-edge technology.

…Usability
Integrated system for office networks, production halls, machine and plant networks.

…Reliability
IP20- and IP67/68/69K-rated housings for reliable connections in harsh environments.

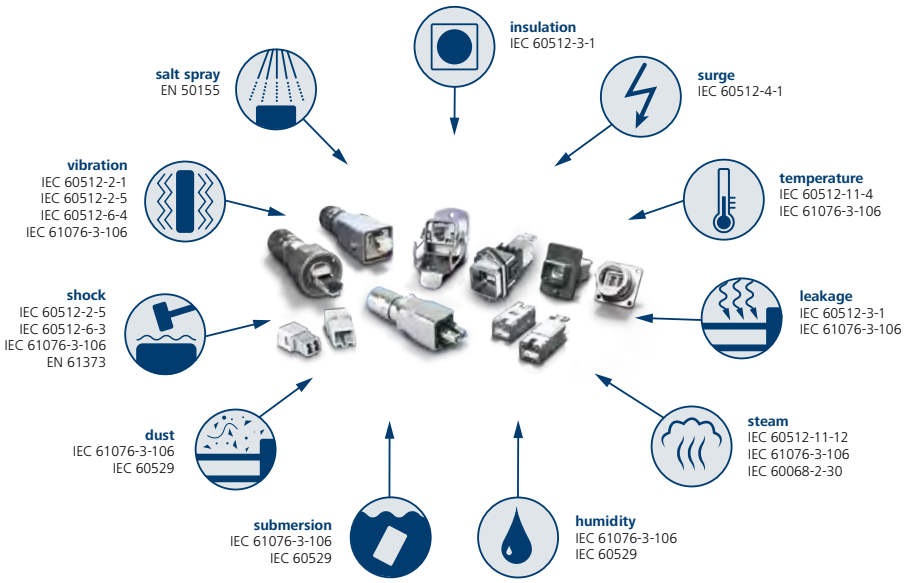
…User-friendliness
Easier to install thanks to pre-assembled components and cables.

BEST CONNECTIONS FOR MODERN INDUSTRY

Modern, high-performance industrial plants, often referred to as smart industry or smart factory, are characterized by maximum flexibility even for small batch sizes, modular, open concepts and maximum reliability. Intelligent, highly automated systems are intended to give companies a technological and economic advantage. This is supported by initiatives such as Industry 4.0 in Germany, l'industrie au futur in France and the Industrial Internet Consortium (IIC) in the United States.

The immense amounts of data generated in such highly interconnected manufacturing processes must be transmitted quickly, securely, and reliably over the network. Powerful industrial solutions must also meet the specific requirements of connected manufacturing in harsh industrial environments while considering future developments. In industrial Ethernet, the same cabling components used in office environments can sometimes be used; however, in the harsh manufacturing environment, the components of a data network are subjected to much harsher stresses: dust, moisture, chemicals, mechanical stresses, extreme temperatures, and strong electromagnetic fields affect the cabling and impose entirely different requirements. At the same time, the highest reliability and availability are demanded in manufacturing, as even a brief failure inevitably leads to significant financial losses. Quality and reliability of the components are crucial, especially in the industrial environment - particularly in plugs and jacks. In addition to the quality of carefully matched components, protection against the ingress of solid and liquid substances is also important in industrial applications.

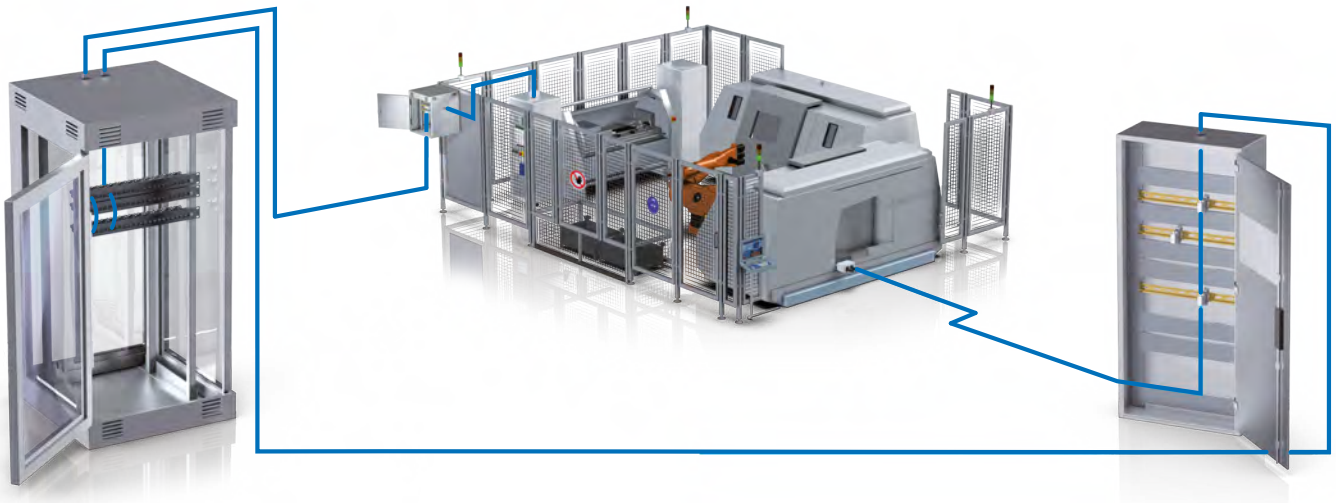
Telegärtner has taken on this topic and developed a pioneering solution for Industrial Ethernet based on our millions of proven connectors used in office premise.



The industrial environment poses different requirements for connectors and connections: sometimes high transmission rates are needed, sometimes specific protection classes are required. Instead of relying on products of different manufacturers to assemble the combination they need for their work, users can rely on the solution for all requirements in the industrial environment: **DataVoice Industry by Telegärtner**

DATAVOICE INDUSTRY:
A solution for all requirements

The industrial-grade connectors and cabling components of the DataVoice Industry program ensure reliable connections in control cabinets, floor distributors, machine distributors, and devices. All requirements that users encounter in an industrial environment are taken into account: fiber optic and copper, flange and housing. All components of the DataVoice Industry program meet all global standards for contact safety, housing stability, and transmission rates in Industrial Ethernet.





Components for floor distributors



Components for field cabling



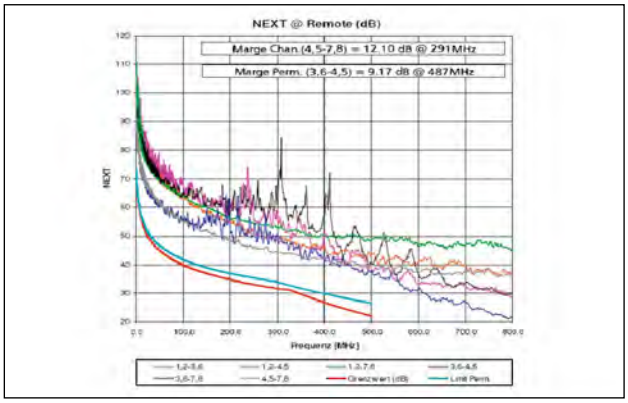
Outlets

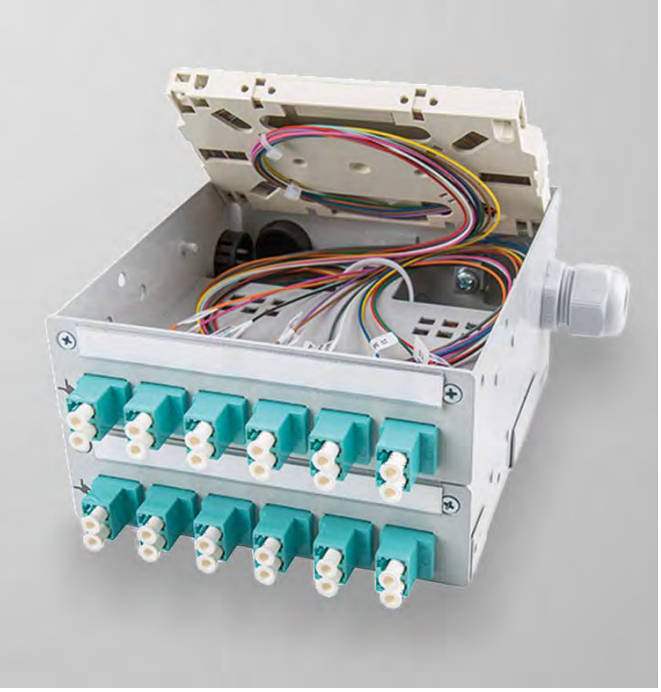


Components for control cabinets

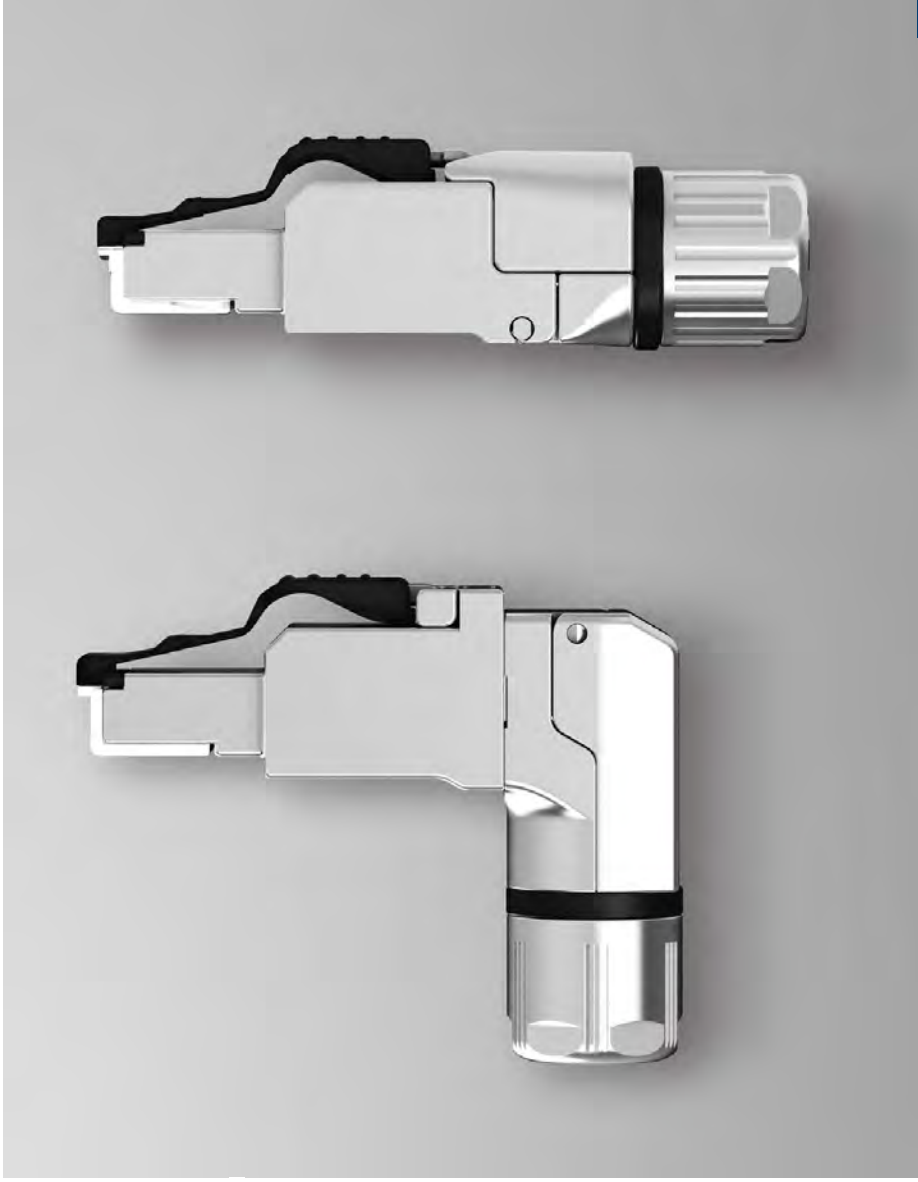
High speed -
from assembly to transmission

The demands for fast networking, reporting and process control are becoming ever higher. With DataVoice Industry, users have a solution that meets all their requirements: Data rates from 10 Mbit/s to 10 Gbit/s open up completely new possibilities for users, both in process design and in logistics.












IP67
PA



Telegärtner DataVoice Industry
Highlights

When it comes to connectors, Telegärtner continuously sets standards. The result is a wealth of practical and innovative product solutions for IT cabling that enable planners, installers and users to carry out their daily tasks more easily, efficiently and successfully.

STX M12x1 D and X-coded Cat.6_A
M12x1 circular connectors in both 4 and 8 pole versions are required for the cabling in industrial communication networks in accordance with IEC 61918. Telegärtner offers these M12x1 D- and X-coded connectors according to IEC 61076-2-101 and IEC 61076-2-109. Alongside these, the portfolio includes PCB sockets with housing for front or rear panel-mounting and pre-assembled cables for the device connection between machines and terminal devices, and from the machine/terminal device into the control cabinet.

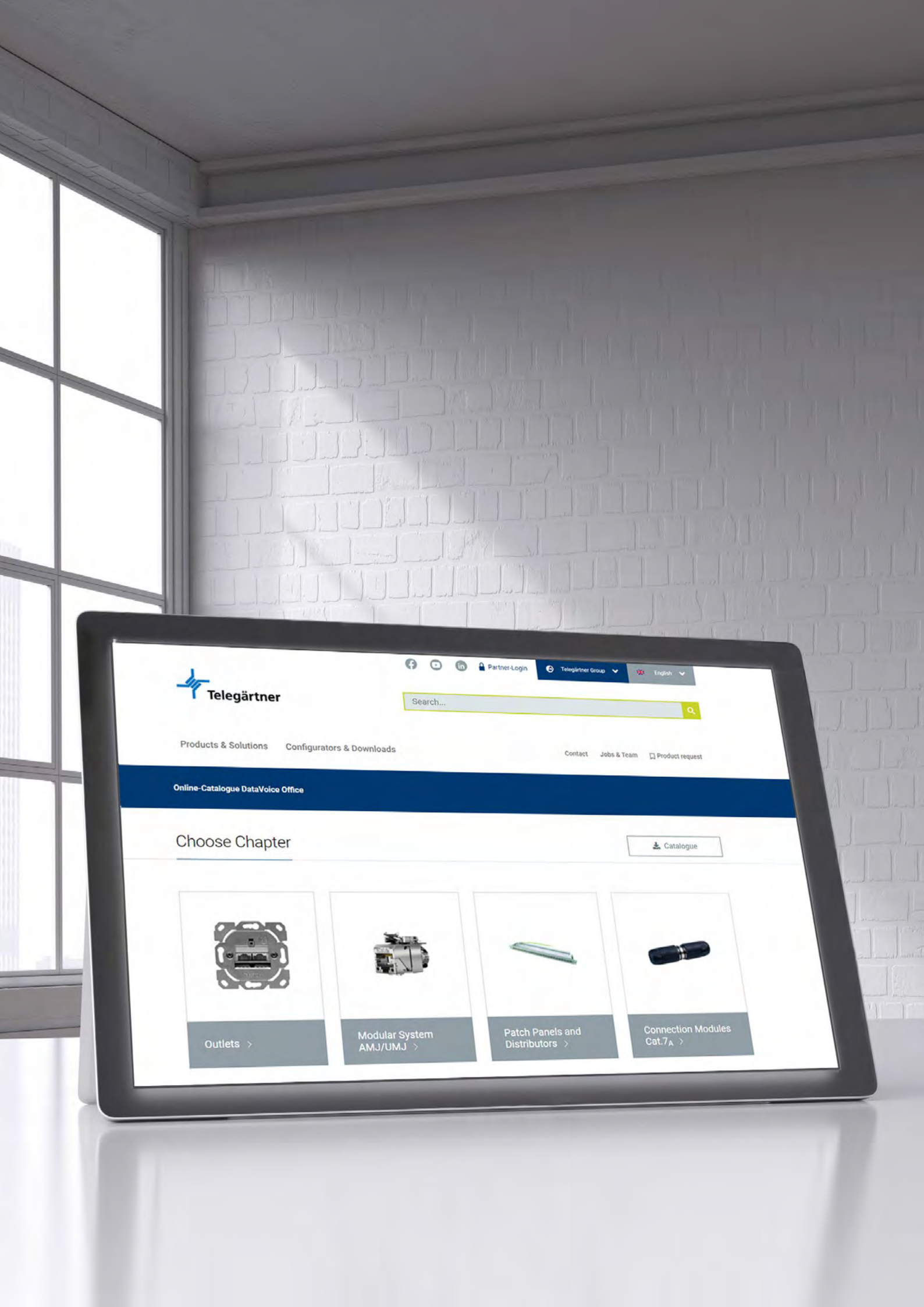
VM-Pro 8-8 Class F_A IP67 Connection Module
The VM Pro 8-8 Class F_A IP67 is the ideal solution for connecting, extending or repairing cables, thanks to its mechanical stability, insulated design and protection against external influences. The compact design allows it to be used even in extremely confined spaces. The assembly requires no special tools and is completed in just a few simple steps.

Telecommunications Outdoor Connector (TOC)
TOC stands for Telecommunications Outdoor Connectors. Users can rely on these connectors wherever maximum reliability is required, even under extreme environmental conditions. The easy-to-install connectors make it easy to create permanently reliable connections, both in copper or fiber optic. Whether in the classic version with nickel-plated brass or in stainless steel: TOC works where others have long since had to give up. Without compromise.

Field-attachable RJ45 plugs from the MFP8 series
The MFP8 connector series is the ideal solution for numerous applications with transmission rates of up to 40 Gigabit Ethernet. They can be connected to all common cable types in just 60 seconds without the need for special tools. The robust MFP8 IE was specially developed for industrial applications and can accomodate cables with an outer diameter of up to 10 millimetres. The MFP8-SL is one of the shortest field-attachable connectors in the world and can also be installed where other connectors are too long. With the MFP8 4x90, the cable outlet can be flexibly selected on site in 90° steps upwards, downwards, to the right or to the left, so that the connected cable can be optimally routed. All MFP8 connectors are available with wire managers with colour coding T568A, T568B or PROFINET. The MFP8 offers maximum flexibility with minimum effort.

STX mounting rail distributor
The robust, compact STX mounting rail distributors from Telegärtner have been proving their worth in industrial fiber optic cabling systems for years. The extensive range covers all important applications, and individual, custom designs are possible at any time using the Ticnet configurator. STX mounting rail distributors are available for pre-assembled fiber optic cables as well as for splicing with and without pig tails, for LC Duplex, LC Quad, SC Duplex, ST, E2000 ...

Further Telegärtner highlights from the DataVoice area can be found on our homepage under
https://www.telegaertner.com/en/product-highlights


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Choose Chapter
Catalogue
Outlets
Modular System AMJ/UMJ
Patch Panels and Distributors
Connection Modules Cat.7A

TELEGÄRTNER ONLINE

Always worth a visit

Gain an insight into our extensive product range and find out more about us. Thanks to our target group-oriented structure, you can quickly and easily find useful and informative content on various topics such as components for industrial applications, office buildings, homes, FTTH/FTTB or data center cabling. In our online catalog you will find up-to-date information on our complete product portfolio. Thanks to a clear navigation structure and integrated full-text search, you can quickly and easily find the items you are looking for and the right contact person. And you can download important information such as data sheets, drawings, installation instructions and certificates as PDF files directly to your computer at any time. For more and more articles, you will also find a link to the installation video

www.telegaertner.com

ONLINE PLANNER AREA

Building cabling tools for planning and engineering offices

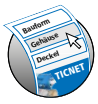
To be able to work effectively and efficiently as a planner, you need not only ideas, but first and foremost a reliable partner who provides useful planning tools. Telegärtner is aware of the requirements that planners have to deal with on a daily basis and offers them comprehensive information material and tried-and-tested planning tools that enable planners to complete their work faster, more efficiently and more effectively.



VISIO-Shapes
VISIO-Shapes of patch panels, outlets, modular systems, for copper and fiber optic networks



Data sheets and assembly instructions
for a wide range of products: quick and easy download directly from our online catalog



Online configurator
TICNET configurator: Configure pre-terminated cables, distributors and fiber optic patch panels online



Tender texts
for generic cabling products and Industrial Ethernet components in all common file formats



Certificates and test reports
of link and component tests by independent test labs



Declarations of performance according to CPR EN 50575
for planning security and documentation



Information materials
Catalogs and product brochures; available in pdf format or as print copy, as well as position papers, technical articles and application reports

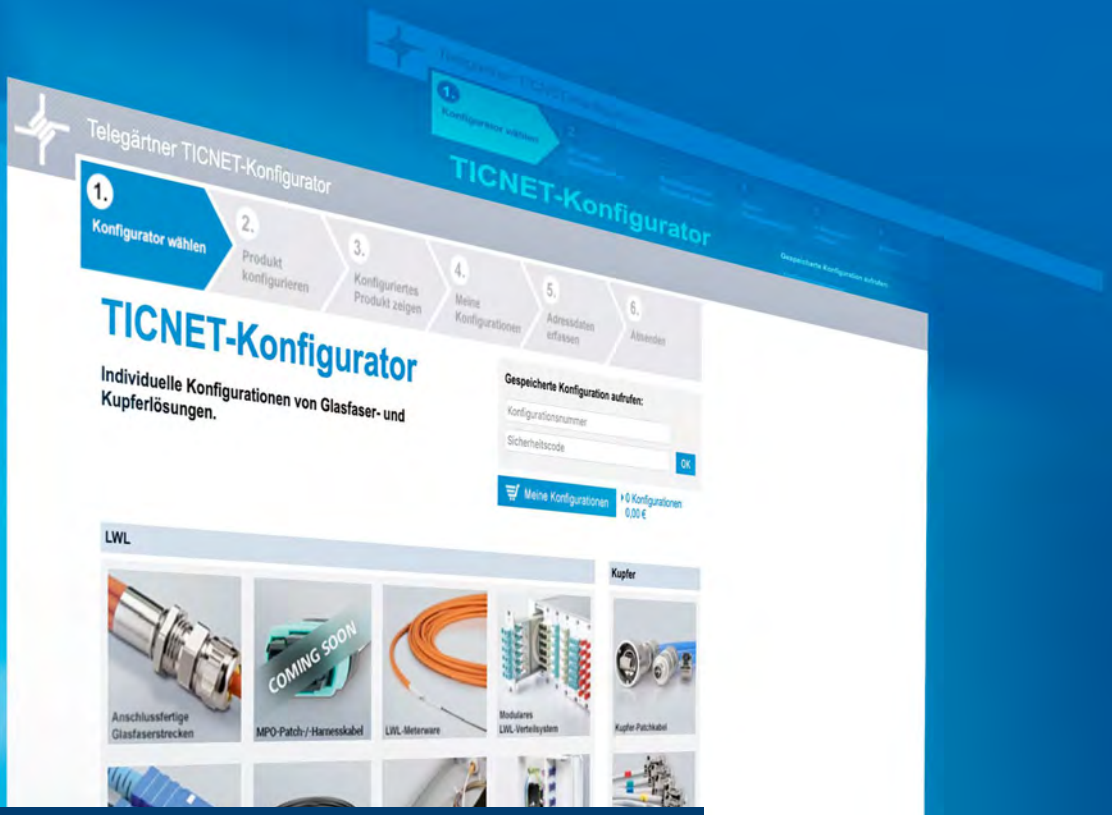


Price lists
Current list of all Telegärtner products in PDF or Excel format: available on request

Use the comprehensive planning tools provided by Telegärtner: for effortlessly planning your future cabling tasks.

https://www.telegaertner.com/en/information-material

OUR CONFIGURATORS 24/7, SIMPLE, INDIVIDUAL.



For individual configurations in a total of 10 ranges of copper and fibre optic solutions:

https://www.telegaertner.com/en/ticnet-configurator-2

Fibre optic connection, twisted pair with different connectors and different housing solutions

It´s that simple: TICNET

Step 1	Step 2	Step 3	Step 4	Step 5
Select product	**Configure product**	**Set labelling** (optional)	**Show product**	**Enter address and request quote**

Great ideas rarely stick to business hours.
You want to get started immediately, even if it's the middle of the night? No problem: our online configurators are available for you around the clock.



For coaxial assemblies:

https://www.telegaertner.com/en/coax-configurator-2

It´s that simple: COAX

Step 1	Step 2	Step 3	Step 4	Step 5
Selection of cable type	**Definition connector series left side**	**Definition connector series right side**	**Set labelling** (optional)	**Enter quantity & send request**

THE RIGHT SOLUTION FOR EVERY REQUIREMENT

The Telegärtner Scope of Supply

All products in our portfolio were developed to transfer data and signals safely and reliably. Our extensive catalogue programme covers a wide range of applications. But since every application makes its own demands on the product, it is sometimes necessary to adapt products or modules individually. Telegärtner offers numerous product-related and supplementary services especially for this – for connecting hardware, network solutions, fiber optic products and RF connectors.

Use our TICNET, Network and Coax online configurators to configure cables, connectors, fiber optic patch panels, complete structured networks or coaxial connectors to meet your requirements and request them simply online. Benefit from our know-how from a number of customised products such as data outlets or distributors or from our OEM competence – for straightforward and structured cabling of halls, machines or plants and secure transmission of RF signals.



Catalogue Products

Telegärtner offers an extensive range of high quality connecting hardware for data and telecommunications technology. In addition to high performance passive components for transmission via copper cables, we also offer you connection and distributor components for fiber optic technology. This is all rounded off by cable pre-assembly – for comprehensive, structured building cabling. In addition to network cabling components, you will also find a wide standard range of RF connectors in our portfolio for fast availability. With added Telegärtner quality and reliability in every product.

Customised Development

In order to offer our customers uncomplicated and structured cabling of halls, machines or plants, we adapt individual products or modules such as data outlets or distributors to meet your individual requirements. Our development competence is demonstrated particularly in the coax field where we convince with a CAD database and more than 15,000 single parts and many thousands of implemented special developments – this individual customisation is invaluable especially for small and medium-sized series.

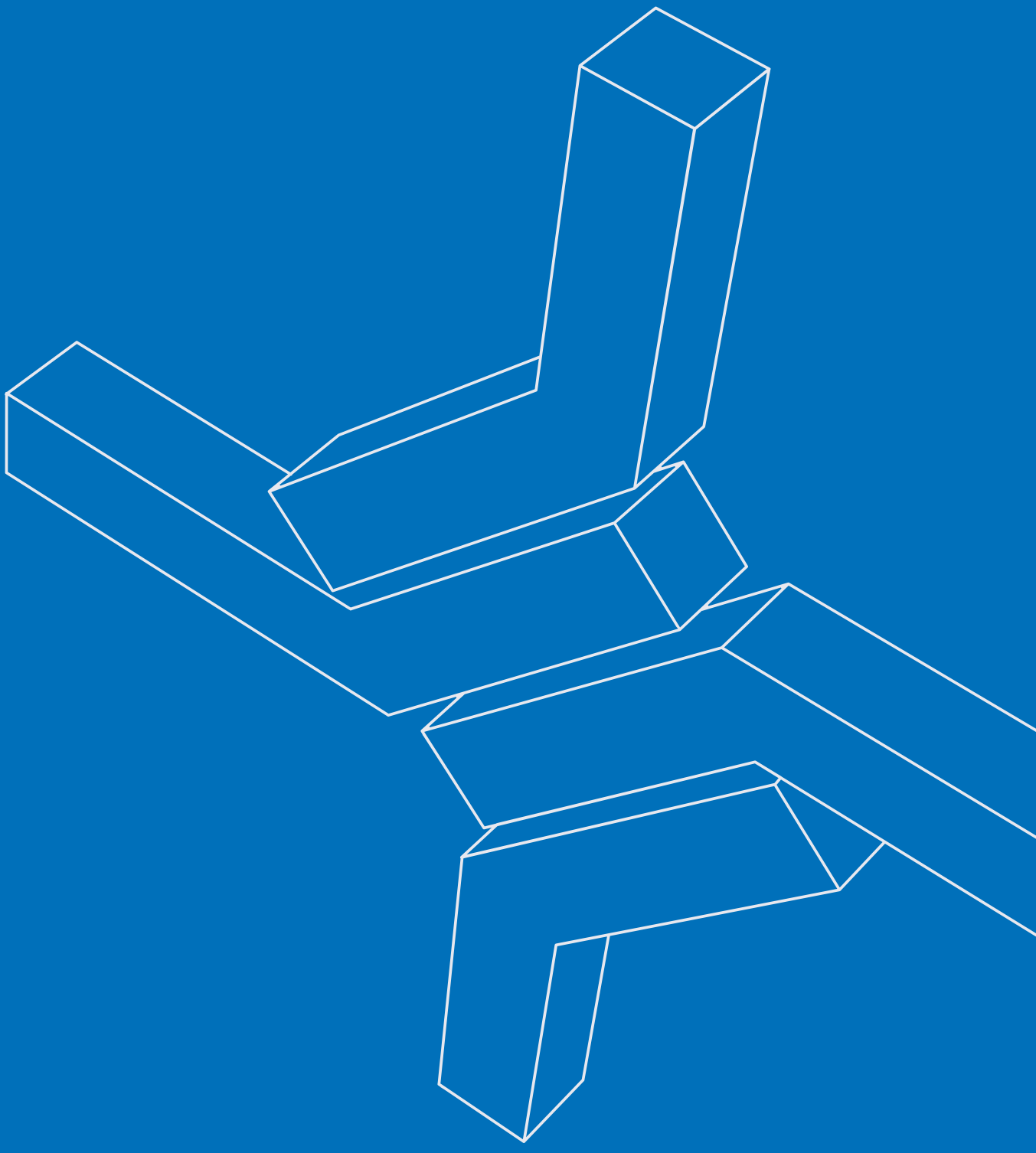
OEM Manufacturing

Produced according to your technical and design specifications both as a built-in unit or a complete product: The tailor-made Telegärtner OEM products are used for data and signal transfer in many different industries. Thanks to short development times, fast and flexible sample production including housing construction as well as reliable order handling, Telegärtner is constantly able to supply customers in different telecommunications sectors with the right DataVoice or Coax solution: in the form of an OEM device which meets all requirements and helps them to successfully serve the market.

Cable Assemblies

Do you want to configure cables and connectors or an FO patch panel according to your requirements and send an inquiry immediately online? Then Telegärtner's TICNET Configurator is just the right tool for you. Four different configurators are available for individual requirements. Each product that you configure is shown to you in detail – incl. illustrations and technical information. You can save your configurations and retrieve them later as required. In addition to the TICNET Configurator we also offer you the Coax Configurator: With this you can also configure coaxial connectors with cables online.

TELEGÄRTNER







TELEGÄRTNER

Our mission and our promise to customers

Architects of Connectivity
The world is getting more and more connected, digital solutions are the infrastructure of the global economy, and we are one of its architects. Wherever there is connectivity, wherever data and signals are transmitted and connections made, Telegärtner is there, working on solutions. Our product portfolio is a relevant part in global networking

Future-proof Connectivity - as Simple as it Gets
We make future-proof connectivity as simple as possible. We stand out with elegant solutions, intuitive operation and seamless support. We are convinced that good technologies offer maximum user-friendliness. We are pragmatic in helping our costumers to achieve their goals. We reduce their workload and make their business more secure for the future. This is what Telegärtner stands for. This is what every one of us stands for. This is what we work for every day.

Detailed information about Telegärtner as well as our online catalogue
you can find at:

www.telegaertner.com

TELEGÄRTNER PRODUCTS
Know–how in all areas



Networking Components
We offer you an extensive line of connection for telecommunications and data transmission technology. On the one hand, high performance, passive components for transmission via copper cables and, on the other, connection and distribution components for fiber optics.



Coaxial Connectors
Whether you require coaxial connectors for high power transfer in the area of transmission, subminiature connectors for dense packaging, or precision connectors for laboratory equipment, we can meet yor every need with our extensive line of standard products – as well as, of course, connectors specially designed to meet individual customer specifications.

Cable Assembly

On request, we can provide you ready-to-use coaxial and other cables which we assemble ourselves. The advantage: cable specific connectors together with reliable, low-loss RF cables. In addition to conventional coax cables, we also pre-assemble semi-rigid, semi-flex, an corrugated cables as well as Twisted-Pair and FO cables with protection class from IP20 to IP68.



Plastic Injection Mould Parts

Telegärtner Kunststofftechnik brings its comprehensive know-how to bear on complex material combinations, from product development right up to series production, from multi-component injection moulding, across in-mould and MID 3D techniques, to automation and clean room technologies.



TELEGÄRTNER QUALITY

Connectors for highest demands

Policy on Quality

Because we always want to offer you, our customers, the best contacts, our quality expectations go far beyond standard. Accordingly, we view ISO as merely a standard for quality – Telegärtner quality, on the other hand, is something we improve daily. It is with this in mind that we have instituted a quality assurance programme according to DIN EN ISO 9001:2015 and DIN EN ISO 14001:2015: from goods received, through manufacturing up to shipping an maintenance. A CAQ programme, the most up-to-date measuring and testing tools, optical and 3D measuring systems, quality consciousness by our employees and the continual optimisation of the Total Quality Management: That´s what makes Telegärtner so unique.

Development and Manufacturing

The products developed with CAD are optimized in our labs with the aid of network analysers and intermodulation test benches. A well-balanced ratio between fully automated, semi-automated and manual manufacturing processes guarantees a high level of flexibility. In addition to the wide range of standard types listed in this catalogue, a multitude of special designs are also available. Additional products can be - and are - developed and manufacturedbased on your specifications.

Delivery Service

The Telegärtner brand stands for more than 75 years of pronounced customer orientation. Starting in the manufacturing, where we consider your request up to the delivery, where we do more than necessary, to afford you the best contacts in the right place at the right time. A fully automated state-of-the-art warehouse with more than 28,000 containers assures, that you don´t have to wait long for their goods. 24-hour delivery time ex warehouse: This is the figure against which you can measure the performance of our logistic department.

Responsibility for Society and the Environment

Environmental protection at Telegärtner is not only considered in the development and manufacturing of products, but also in all entrepreneurial activities in the daily routine. The sparing use of resources has top priority. Our catalogues are printed CO_2 neutral, business and copying papers are FSC certifed and 15% of our annual demand of electricity is produced by our own solar plant on the roof top of our company building.

All this makes Telegärtner so unique.



LOCATIONS AND AGENTS



TELEGÄRTNER GROUP

Worldwide there for you

The headquarters of the Telegärtner Group is located in Steinenbronn, Germany. It is located in the heart of the industrial metropolitan area of Stuttgart, where world-famous brands such as Mercedes-Benz, Porsche and Bosch have their headquarters. Network components for structured cabling and coaxial connectors as well as plastic injection molded parts are manufactured in Steinenbronn. Components for fiber optic technology are assembled and installed in Klingenberg near Dresden. There are also other branches abroad, for example in the USA, Japan, France, the UK and Slovakia.

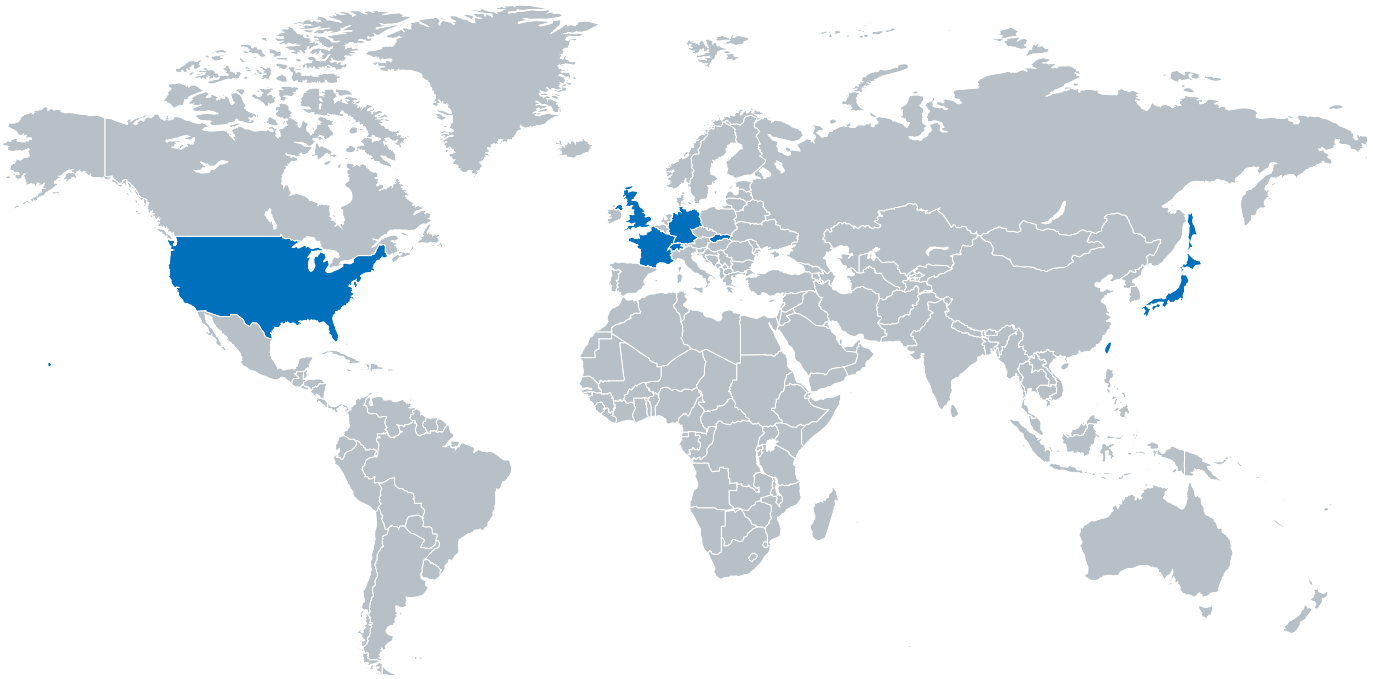
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Franklin Park, USA
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Steinenbronn, Germany
Klingenberg, Germany
HEAD OFFICE
STAMMHAUS
PRODUCTION

Telegärtner Elektronik GmbH
Crailsheim, Germany
PARTNER



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Prešov, Slovakia
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Japan Telegärtner Ltd.
Tokyo Japan
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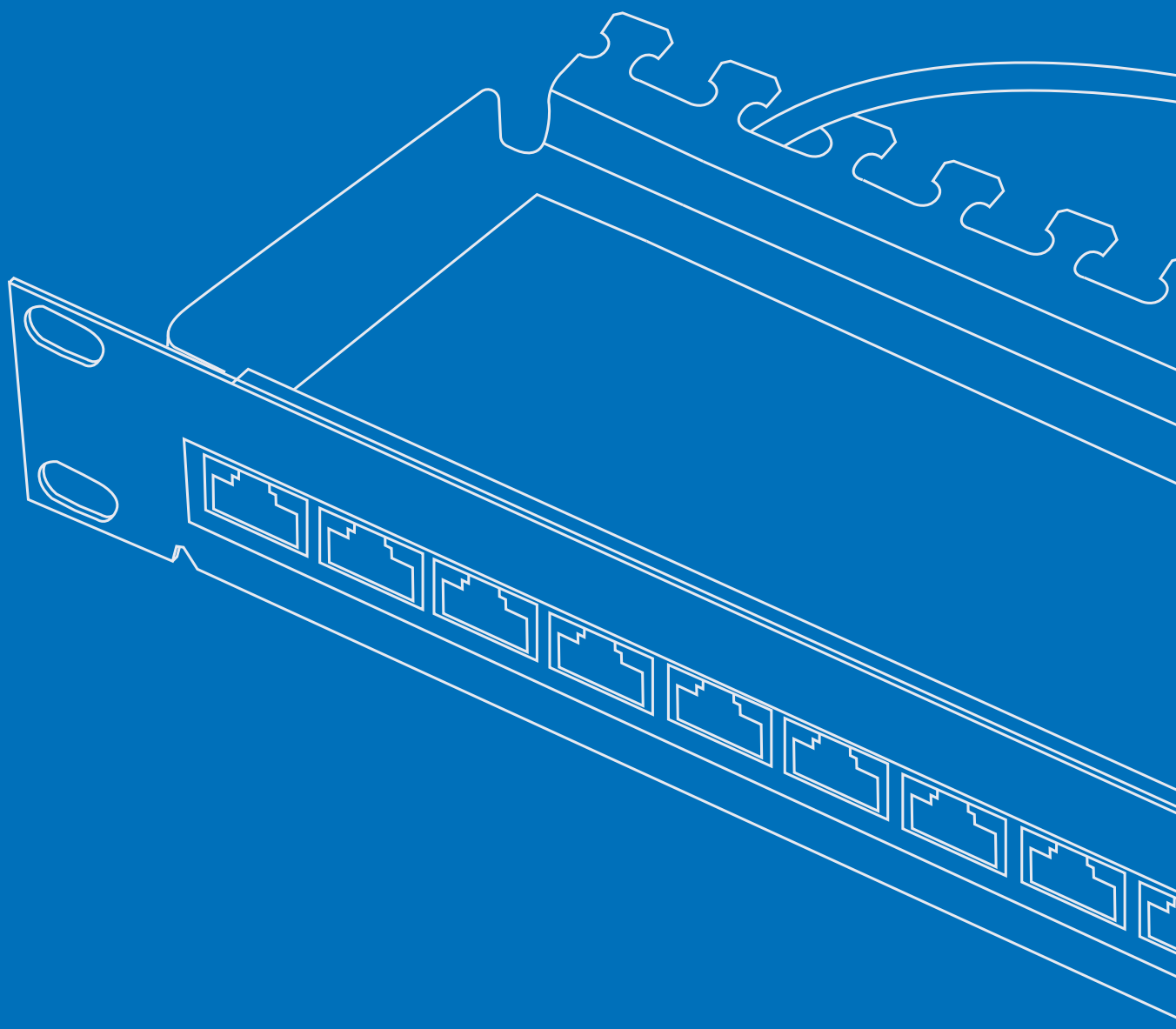
TELEGÄRTNER WORLDWIDE

You will find Telegärtner agents always up to date on our homepage:

www.telegaertner.com

1

COMPONENTS FOR THE FLOOR DISTRIBUTOR - RJ45/FO



COMPONENTS FOR THE FLOOR DISTRIBUTOR RJ45/FO



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For generic cabling inside floor distributors Telegärtner offers flexible 19" patch panel solutions for RJ45 and FO connections. Users benefit from a unique and consistent connector and connection technology to realize a persistent link from the floor distributor to the machine.

	AMJ Module Cat.8.1	AMJ-SL Module 25G Cat.6_A	AMJ-SL Module Cat.6_A	AMJ-S Module Cat.6_A	AMJ Module K Cat.6_A	AMJ Coupler K Cat.6_A
Standards						
Connectors	IEC 60603-7-81	IEC 60603-7-51				
Mechanical Characteristics						
Insertion force	≤ 30 N					
Life	≥ 750					
Material: housing	Zinc die-cast Ni plated				Zinc die-cast	
Material: snap-fit	Lexan	Spring steel			PC UL94 V0	Zinc die-cast
Material: shield	Phosphorous bronze	German silver				
Material: insulators	PBT UL94 HB natur	PC UL94 HB	PC UL94 HB	PC UL94 V0	PBT	PA
Material: PCB	FR4					
Material: contact springs	Spring steel	Bronze gold plated	Bronze gold plated	Spring steel		
Material: contact IDC termination	CuNi2Si, tinned	Bronze tinned	Bronze tinned	CuNi2Si, tinned	CuNi2Si, tinned	-
CU-Conductor diameter: solid	0.54 - 0.64 mm AWG23/1 - AWG22/1	0.41 - 0.64 mm AWG 26/1 - AWG 22/1				-
CU-Conductor diameter: stranded	-	0.46 - 0.76 mm AWG 27/7 - AWG 22/7				-
Core diameter	1.0 - 1.6 mm	0.9 - 1.6 mm				-
Cable diameter	max. 10 mm	max. 9 mm				-
Environmental Requirements						
Ambient temperature	-40 °C to +70 °C					
Electrical Characteristics						
Contact resistance	≤ 20 mΩ					
Insulation resistance	≥ 500 MΩ					
Voltage proof: contact-contact	≥ 1000 V, DC					
Voltage proof: contact-shield	≥ 1500 V, DC					
Current carrying capacity at 50 °C	1A					
PoE+ acc to IEEE 802.3at	Adequate for Power over Ethernet+					
4PPoE acc to IEEE 802.3bt	Adequate for 4 Pair Power over Ethernet					

	AMJ Module Cat.8.1	AMJ-SLModule 25G Cat.6_A	AMJ-SL Module Cat.6_A	AMJ-S Module Cat.6_A	AMJ Module K Cat.6_A	AMJ Coupler K Cat.6_A
Transmission Characteristics						
Category 6 (component)	-	-	-	-	-	-
Category 6_A (component)	-	ISO/IEC 11801, DIN EN 50173-1				-
Category 8.1 (component)	ISO/IEC 11801-1; DIN EN 50173-1	-	-	-	-	-
Class D (channel with Coupler Cat.5e)	-	-	-	-	-	-
Class E (channel with Coupler Cat.6)	-	-	-	-	-	-
Class E_A (PL)	-	ISO/IEC 11801, DIN EN 50173-1				
Class E_A (Channel)	-	ISO/IEC 11801, DIN EN 50173-1				
Class I	ISO/IEC 11801, DIN EN 50173-1	-				
Gigabit Ethernet	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled
10 Gigabit Ethernet	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled	Fulfilled
25 Gigabit Ethernet	Fulfilled	Fulfilled	-	-	-	-
40 Gigabit Ethernet	Fulfilled	-	-	-	-	-
UL	-	-	-	Fulfilled	-	-
PVP	-	-	Fulfilled	-	-	-

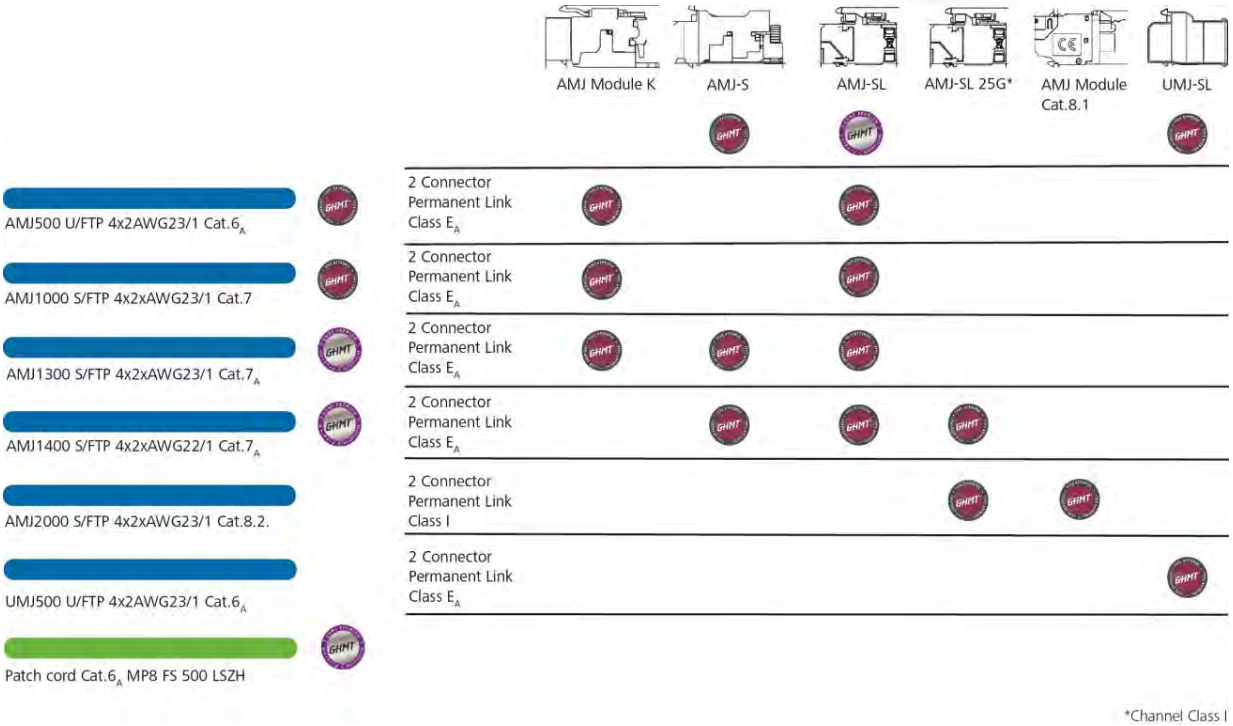
TYPE APPROVAL AND PVP

Telegärtner uses two GHMT test types for copper products:

Type Approval (TA)
- Single components
- Permanent Link
- Channel measurements

PVP
- Single components

Test certificates can be viewed on the Telegärtner website.



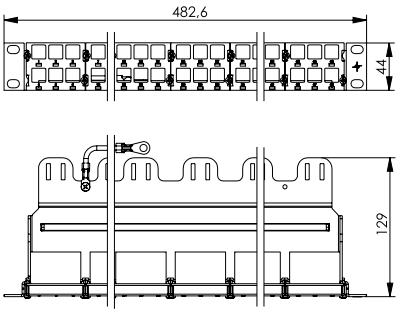
	UMJ-SL Module Cat.6_A	UMJ Coupler K Cat.6
Standards		
Connectors	IEC 60603-7-41	IEC 60603-7-4
Mechanical Characteristics		
Insertion force	≤ 30 N	≤ 20 N
Life (mating cycles RJ45, RJ12, RJ11)	≥ 750	≥ 750
Material: housing	PC UL94 V0	PC
Material: snap-fit	-	PC
Material: shield	-	-
Material: insulators	PC UL94 HB	-
Material: PCB	FR4	FR4
Material: contact springs	Bronze gold plated	Spring steel
Material: contact IDC termination	Bronze tinned	-
CU-Conductor diameter: solid	0.41 - 0.64 mm AWG 26/1 - AWG 22/1	-
CU-Conductor diameter: stranded	0.46 - 0.76 mm AWG 27/7 - AWG 22/7	-
Core diameter	0,9 - 1,6 mm	-
Cable diameter	max. 9 mm	-
Environmental Requirements		
Ambient temperature	-40 °C to +70 °C	-40 °C to +70 °C
Electrical Characteristics		
Contact resistance	≤ 20 mΩ	≤ 20 mΩ
Insulation resistance	≥ 500 MΩ	≥ 500 MΩ
Voltage proof: contact-contact	≥ 1000 V, DC	≥ 1000 V, DC
Voltage proof: contact-shield	-	-
Current carrying capacity at 50 °C	1A	1A
PoE+ acc to IEEE 802.3at	Adequate for Power over Ethernet+	Adequate for Power over Ethernet+
4PPoE acc to IEEE 802.3bt	Adequate for 4 Pair Power over Ethernet	Adequate for 4 Pair Power over Ethernet
Übertragungstechnische Eigenschaften		
Category 6 (component)	-	ANSI/TIA-568.2-D
Category 6_A (component)	ISO/IEC 11801, DIN EN 50173-1	-
Category 8.1 (component)	-	-
Class D (Channel with Coupler Cat.5e)	-	-
Class E (Channel with Coupler Cat.6)	-	ISO/IEC 11801, DIN EN 50173-1
Class E_A (PL)	ISO/IEC 11801, DIN EN 50173-1	-
Class E_A (Channel)	ISO/IEC 11801, DIN EN 50173-1	-
Class I	-	-
Gigabit Ethernet	Fulfilled	Fulfilled
10 Gigabit Ethernet	Fulfilled	-
25 Gigabit Ethernet	-	
40 Gigabit Ethernet	-	
UL	-	-
PVP	-	-

1.1 AMJ 19" Frontplate

- Integrated cable clamp
- Potential connection via an enclosed PE cable
- Frontplate printed with port numbering
- Sheet steel housing, powder-coated
- For accommodating up to 48 AMJ or UMJ modules

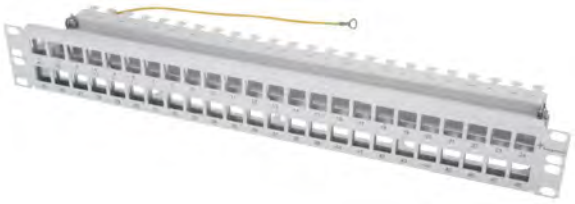
AMJ-SL
AMJ-S

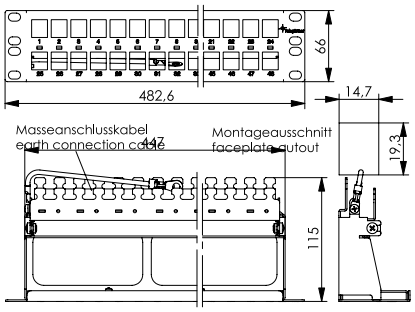




Part No.	Short name	Type	Remarks	Series	Colour
100021503	19" Frontplate 1 HU	incl. cable strain relief and bonding kit, without modules/couplers	48 Ports	AMJ-S, AMJ-SL, AMJ Cat.8.1 Modul	sheet steel zinc-plated

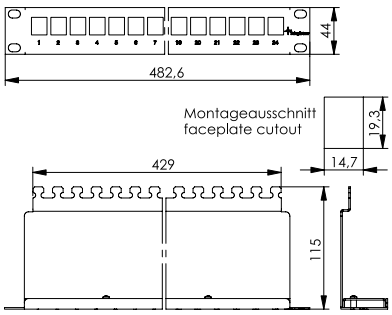
AMJ-SL
AMJ-S
AMJ





Part No.	Short name	Type	Remarks	Series	Colour
100021494	19“ frontplate 1.5 HU	incl. cable strain relief and bonding kit, without Module/Coupler	48 Ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	light grey RAL 7035
100021507	19“ frontplate 1.5 HU	incl. cable strain relief and bonding kit, without Module/Coupler	48 Ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	black



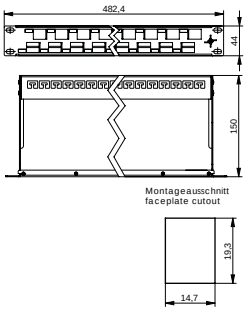


AMJ-SL
AMJ-S
AMJ

Part No.	Short name	Type	Remarks	Series	Colour
100021492	19" Frontplate 1 HU	incl. cable strain relief and bonding kit, without modules/couplers	24 ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	light grey RAL 7035
100021497	19" Frontplate 1 HU	incl. cable strain relief and bonding kit, without modules/couplers	24 ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Modul; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	black

- Integrated cable clamp
- Potential connection via an enclosed PE cable
- Frontplate printed with port numbering
- Sheet steel housing, powder-coated
- For mounting up to 48 AMJ or UMJ modules Angled and slightly offset outlets

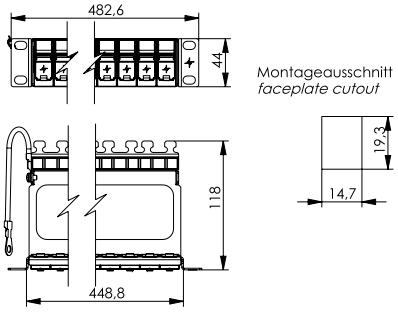




AMJ-SL
AMJ-S
AMJ

Part No.	Short name	Type	Remarks	Series	Housing	Colour
100021505	19" frontplate 1HU	angled for 24 AMJ Module	24 Ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	sheet steel zinc-plated	black





AMJ-SL
AMJ-S
AMJ

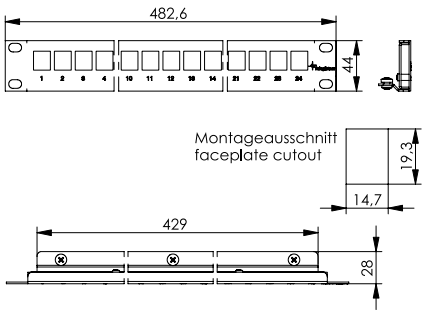
Part No.	Short name	Type	Remarks	Series	Colour
100021502	19" Frontplate Flex 1 HU	incl. 24 snap-in bezels, cable management, cable strain relief and bonding kit, without modules/couplers	24 ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	frontplate light grey RAL 7035/ faceplate alpine white

1.1 AMJ 19" Frontplate

- Potential connection via an enclosed PE cable
- Frontplate printed with port numbering
- Sheet steel housing, powder-coated
- For accommodating up to 48 AMJ or UMJ modules

AMJ-SL
AMJ-S
AMJ



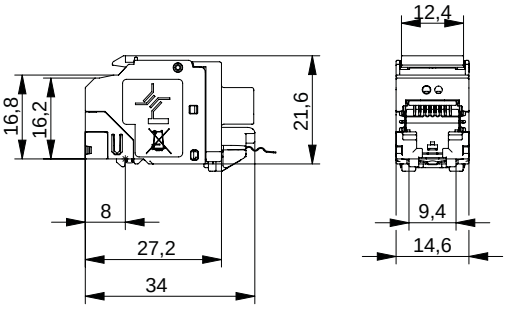


Part No.	Short name	Type	Remarks	Series	Colour
100021496	19" Frontplate 1 HU	without cable strain relief and bonding kit, without modules/ couplers	24 ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	light grey RAL 7035
100021498	19" Frontplate 1 HU	without cable strain relief and bonding kit, without modules/ couplers	24 ports	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	black

- Category 8.1/Class I acc. ISO/IEC 11801-1
- 25/40GBase-T acc. IEEE 802.3bq
- Shielding housing material: die-cast nickel-plated zinc
- Backward compatible to Class E_A acc. ISO/IEC 11801-1 (permanent link up to 90 m and channel up to 100 m)
- Approved for 4 Pair Power over Ethernet

AMJ-S
REAL-TIME RE-EMBEDDED
GHMT

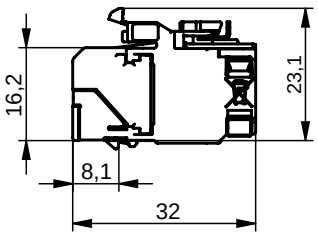


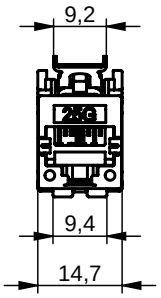


Part No.	Short name	Type	Remarks
100023211	AMJ Modul Cat.8.1 T568A/B	Pack of 6 x 2	RJ45 module featuring full-metal cable clamp Most suited for assembly with installation cables Cat.8.1/Cat.8.2

- 25GBASE-T channel of 30 meters including patch cords of up to 3 meters on each end
- Very short length, only 32 mm
- Made in Stuttgart
- Safe Lock
- Refined zinc die cast housing and metallic stop hook provide 360°-shielding
- Captive cable relief
- Compatible with all switching programs
- Carton packaging
- Detailed assembly instruction and assembly video available, via QR-Code always and everywhere
- easy & fast assembly withou special tools



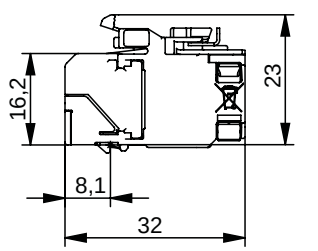


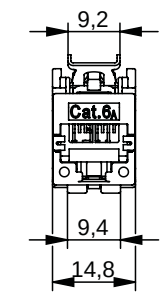


Part No.	Short name	Type	Remarks
100128125	AMJ-SL Module 25G, T568A	package of 12	tool-free connectivity, suitable for RJ45/11/12 plugs
100128126	AMJ-SL Module 25G, T568B	package of 12	tool-free connectivity, suitable for RJ45/11/12 plugs

- Extremely short overall length of only 32mm
- Made in Stuttgart
- PVP certification
- Safe Lock
- Type Approval Component Category 6_A, certified by GHMT; electrical performance characteristics above standard certainty for planning purposes
- suitable for 4 Pair Power over Ethernet (4PPoE)
- Refined zinc die cast housing and metallic stop hook provide 360°-shielding
- Captive cable strain relief
- Compatible with all faceplates of leading manufacturers
- Carton packaging
- Detailed assembly instruction and assembly video available, via QR-Code always and everywhere
- easy & fast assembly without special toolsmating cycles with RJ45/RJ11/RJ12 ≥ 750



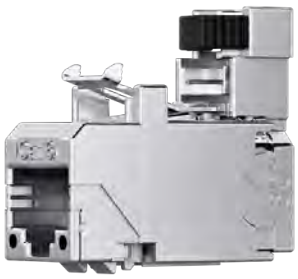


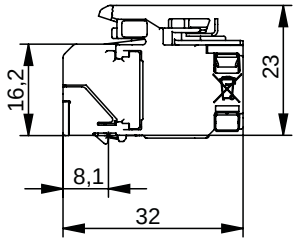


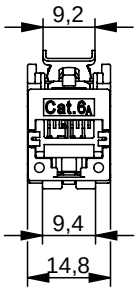
Part No.	Short name	Type	Remarks
100023209	AMJ-SL Module Cat.6_A, T568A	package of 12	tool-free connectivity, suitable for RJ45/11/12 plugs
100023210	AMJ-SL Module Cat.6A, T568B	package of 12	tool-free connectivity, suitable for RJ45/11/12 plugs

1.1 AMJ 19" Frontplate

- Very short length, only 32 mm
- Safe Lock
- Captive cable relief
- Carton packaging
- Detailed assembly instruction and assembly video available, via QR-Code always and everywhere
- easy & fast assembly without special tools
- Individual Cable entry can be determined on-site up, down, left or right.
- Refined zinc die cast housing and metallic stop hook provide 360°-shielding



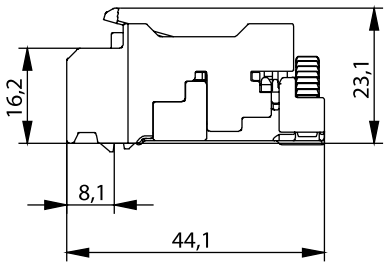


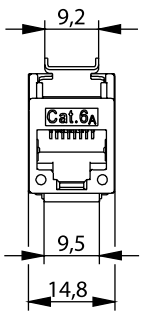


Part No.	Short name	Type	Remarks
100127803	AMJ-SL Module Cat.6_A 4x90, T568A	package of 12	suitable for RJ45/11/12 plugs
100127804	AMJ-SL Module Cat.6_A 4x90, T568B	package of 12	suitable for RJ45/11/12 plugs

- Cat.6_A acc. to IEC 60603-7-51
- Link certificate: Class E_A acc. to ISO/IEC 11801
- 10 Gigabit Ethernet compliant (IEEE 802.3an)
- Suitable for PoE+ acc. to IEEE 802.3a
- Fits into faceplates of leading manufacturers with design capable faceplate AMJ-S Up/0 flex
- Universal, world-wide available installation dimension for mounting cut-outs: 19.3 x 14.7 mm



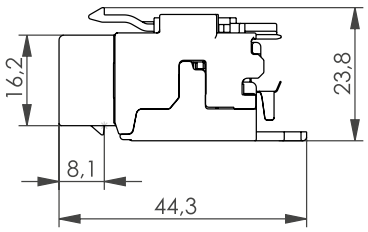


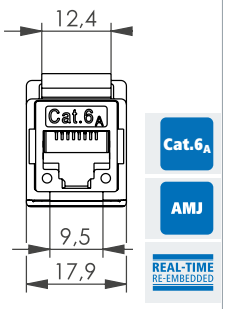


Part No.	Short name	Type	Remarks
100023198	AMJ-S Module Cat.6_A T568A	Blister pack of 24	tool-free connectivity, suitable for RJ45/11/12 plugs
100023199	AMJ-S Module Cat.6_A T568B	Blister pack of 24	tool-free connectivity, suitable for RJ45/11/12 plugs

- Cat.6_A acc. to IEC 60603-7-51
- Suitable for 4 Pair Power over Ethernet
- Link certificate: Class E_A acc. to ISO/IEC 11801
- Universal, world-wide available installation dimension for mounting cut-outs: 19.3 x 14.7 mm

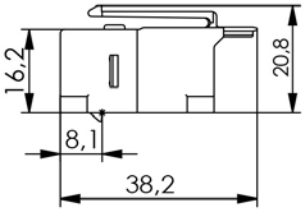


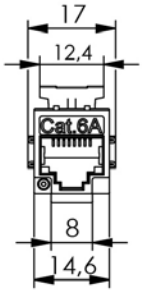




Part No.	Short name	Type	Remarks
100023231	AMJ Module K Cat.6_A T568A	Blister pack of 24	tool-free connectivity, suitable for RJ45/11/12 plugs
100023215	AMJ Module K Cat.6_A T568B	Blister pack of 24	tool-free connectivity, suitable for RJ45/11/12 plugs

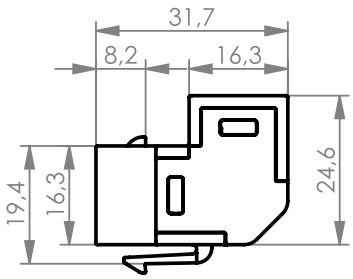


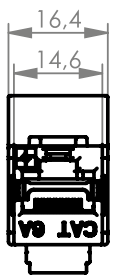




Part No.	Short name	Description	Type	Remarks
100023233	AMJ Coupler K Cat.5e, f-f	suitable for Class E channel, 1 Gigabit Ethernet	Blister pack of 24	suitable for RJ45/11/12 plugs
100023213	AMJ Coupler K Cat.6_A, f-f	suitable for Class E_A channel, 10 Gigabit Ethernet	Blister pack of 24	suitable for RJ45/11/12 plugs







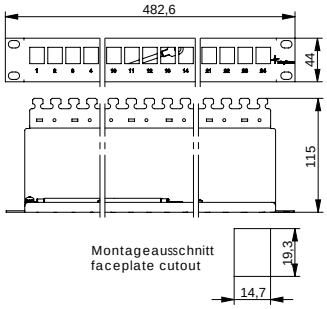
Part No.	Short name	Description	Remarks
100023195	AMJ Coupler 90° Cat.6A	suitable for Class E_A channel, 10 Gigabit Ethernet	suitable for RJ45/11/12 plugs

1.1 AMJ 19" Frontplate

- Integrated cable clamp
- Potential connection via an enclosed PE cable
- Front panel printed with port numbering
- Sheet steel housing, powder-coated
- Cat.6_A according to IEC 60603-7-51, Cat.6_A re-embedded tested according to IEC 60512-27-100
- Link certification: Class E_A in accordance with ISO/IEC 11801
- 10 Gigabit Ethernet compliant (IEEE 802.3an)
- Contact overbend protection: ≥750 mating cycles
- with RJ45/RJ11/RJ12 plugs
- Suitable for PoE+ in accordance with IEEE 802.3at
- Optically monitored testing of the RJ45 contact heights
- Equipped with AMJ-SL module

Cat.6_A AMJ-SL REAL-TIME RE-EMBEDDED

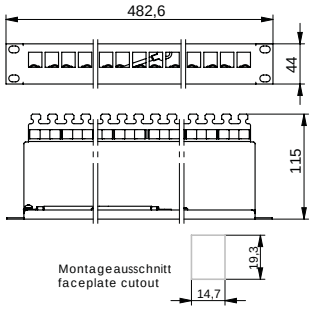




Part No.	Short name	Type	Remarks	Colour
100007021	19" Frontplate 1 HU	incl. 24 AMJ-SL Modules Cat.6A T568A, cable strain relief and bonding kit	suitable for RJ45/11/12 plugs	light grey RAL 7035
100007022	19" Frontplate 1 HU	incl. 24 AMJ-SL Modules Cat.6A T568B, cable strain relief and bonding kit	suitable for RJ45/11/12 plugs	light grey RAL 7035

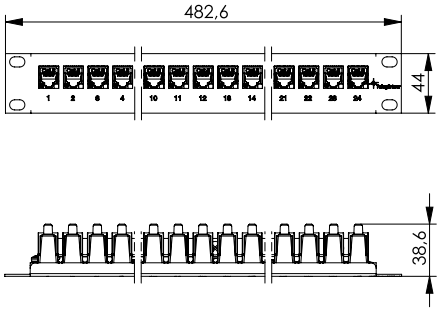
Cat.6_A AMJ REAL-TIME RE-EMBEDDED





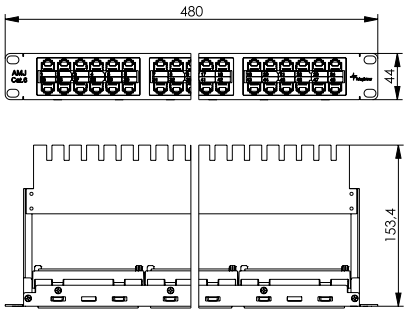
Part No.	Short name	Type	Remarks	Colour
100007009	19" Frontplate 1 HU	incl. 24 AMJ Modules K Cat.6_A T568A, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	black
100007010	19" Frontplate 1 HU	incl. 24 AMJ Modules K Cat.6_A T568B, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	light grey RAL 7035
100007011	19" Frontplate 1 HU	incl. 24 AMJ Modules K Cat.6_A T568B, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	black
100007029	19" Frontplate 1 HU	incl. 24 AMJ Modules K Cat.6_A T568A, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	light grey RAL 7035
100007012	19" Frontplate 1 HU	incl. 24 AMJ-S Modules Cat.6_A T568A, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	light grey RAL 7035
100007013	19" Frontplate 1 HU	incl. 24 AMJ-S Modules Cat.6_A T568B, cable strain relief and bonding kit	tool-free connectivity, suitable for RJ45/11/12 plugs	light grey RAL 7035





Part No.	Short name	Type	Remarks	Colour
100007007	19" Frontplate 1 HU	incl. 24 AMJ Coupler K Cat.6_A, bonding kit, without cable strain relief	suitable for Class E_A channel, suitable for RJ45/11/12 plug	light grey RAL 7035
100007028	19" Frontplate 1 HU	incl. 24 AMJ Coupler K Cat.5e, bonding kit, without cable strain relief	suitable for Class E channel, 1 Gigabit Ethernet, suitable for RJ45/11/12 plug	light grey RAL 7035



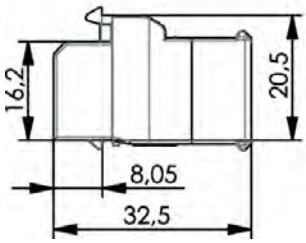


Part No.	Short name	Type	Remarks	Colour
100007036	19" Feedthrough panel, 1 HU	incl. 48 AMJ Coupler K Cat.6_A (4x12), cable strain relief and bonding kit	suitable for Class E_A channel, 1 Gigabit Ethernet, suitable for RJ45/11/12 plug	light grey RAL 7035
100007040	19" Feedthrough panel, 1 HU	incl. 48 AMJ Coupler K Cat.6_A (4x12), cable strain relief and bonding kit	suitable for Class E_A channel, 1 Gigabit Ethernet, suitable for RJ45/11/12 plug	black

1.1 AMJ 19" Frontplate

- Cat.6_A acc. to IEC 60603-7-41
- Made in Stuttgart
- Link certificate: Class E_A acc. to ISO/IEC 11801
- Suitable for 4 Pair Power over Ethernet
- Integrated strain relief for cable O.D. to 9 mm
- ≥ 750 mating cycles with RJ45/RJ11/RJ12 plugs
- Fits into faceplates of leading manufacturers manufacturers with design capable faceplate AMJ-S Up/0 flex
- Universal, world-wide common installation dimension for mounting cut-outs: 19.3 x 14.7 mm

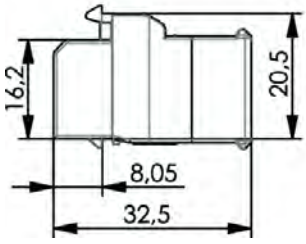


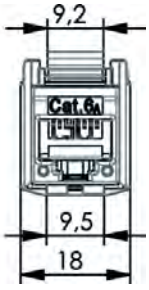




Part No.	Short name	Remarks	Type
100034491	UMJ-SL Module Cat.6_A T568A	Tool-free connectivity, suitable for RJ45/11/12 plugs	6 x 2
100034493	UMJ-SL Module Cat.6_A T568B	Tool-free connectivity, suitable for RJ45/11/12 plugs	6 x 2
100042431	UMJ-SL Module Cat.6_A T568A	Tool-free connectivity, suitable for RJ45/11/12 plugs	Blister pack of 24
100042316	UMJ-SL Module Cat.6_A T568B	Tool-free connectivity, suitable for RJ45/11/12 plugs	Blister pack of 24

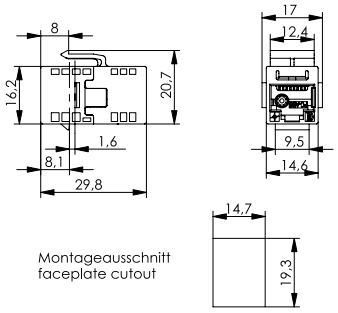






Part No.	Short name	Remarks	Type
100122961	UMJ-SL Module Cat.6_A T568A	Tool-free connectivity, suitable for RJ45/11/12 plugs	6 x 2
100122962	UMJ-SL Module Cat.6_A T568B	Tool-free connectivity, suitable for RJ45/11/12 plugs	6 x 2
100122963	UMJ-SL Module Cat.6_A T568A	Tool-free connectivity, suitable for RJ45/11/12 plugs	Blister pack of 24
100122964	UMJ-SL Module Cat.6_A T568B	Tool-free connectivity, suitable for RJ45/11/12 plugs	Blister pack of 24





Part No.	Short name	Remarks	Type	Mount. dim.
100023214	UMJ Coupler K Cat.6, f-f	Suitable for RJ45/11/12 plugs	Blister pack of 24	Z121
100023234	UMJ Coupler K Cat.5e, f-f	Suitable for RJ45/11/12 plugs	Blister pack of 24	Z121

19" FO Patch Panels 1.2

Telegärtner offers a comprehensive range of fiber optic patch panels for nearly any application. Shelves can be ordered preloaded (with pigtails) or unloaded (without pigtails) with fixed (Basis ECO/ V) and sliding (Profi V) trays.

Housing	BASIS-ECO	BASIS-V	PROFI-V	Profi-T
Mechanical Characteristics				
Material: Housing	Sheet steel 0.8 mm, powder-coated, light grey RAL 7035			
Protection acc. to IEC 60529	IP 20			
Front plates	Sheet aluminium 1.5 mm, powder-coated, light grey RAL 7035, port no. imprinted, marking strip with plastic cover optional			
Housing	2x M20 2x M25	2x M20 2x M25	2x M20 2x M25	2x M20 2x M25
Dimensions	1U	1+2U	1U	1+2U
Width [mm]	482 mm	482 mm	482 mm	482
Hight [mm]	44 mm	44 mm	44 mm	44
Depth [mm]	265 mm	265 mm	300 mm	265
Weight (empty)	2.44 kg	2.4 mm	3.35 mm	2,8
Slide-out	-	-	✓	✓
detachable	-	-	✓	-
Set-back mounting	-	in 5 steps	in 5 steps	-

1.2 19“ FO Patch Panels

1.2.1 Basis-ECO with Pigtails

- For installation of multifiber cables and TICNET pre-terminated cables
- Fixed housing

Scope of delivery

- Housing with 2 cable entries for M20 and M25 cable glands each
- 1x cable gland M20 for 5-9 mm
- 1x cable gland M25 for 9-16 mm
- 2x covers for M20 and M25
- Splice cassette with integrated crimp splice holders for max. 24x splices and cover
- frontplate for max. 24 adaptors
- Adaptors and pigtails see tables
- Cover
- SC- and LC-Pigtails in Grade C

Crimp splice protection System Telekom and labeling strips are included in the scope of delivery with pigtails.
Customized design via TicNet.

Patch panel comes with adaptors and splice cassette



BASIS-ECO with Pigtails

	STD	SCD	LCD
Part No.			
OM1 6 ports	100130979		
OM1 12 ports	100130980		
OM1 24 ports	100130981		
OM2 6 ports	100130982	100130994	100131009
OM2 12 ports	100130983	100130995	100131010
OM2 24 ports	100130984	100130996	100131011
OM3 6 ports	100130985	100130997	100131012
OM3 12 ports	100130986	100130998	100131013
OM3 24 ports	100130987	100130999	100131014
OM4 6 ports	100130988	100131000	100131015
OM4 12 ports	100130989	100131001	100131016
OM4 24 ports	100130990	100131002	100131017
OM5 6 ports			100131018
OM5 12 ports			100131019
OM5 24 ports			100131020
OS2/A 6 adaptors			100131006
OS2/A 12 adaptors			100131007
OS2/A 24 adaptors			100131008
OS2/P 6 adaptors	100130976	100130991	100131003
OS2/P 12 adaptors	100130977	100130992	100131004
OS2/P 24 adaptors	100130978	100130993	100131005

Basis-Eco without Pigtails / without Splice cassette 1.2.2



BASIS-ECO without Pigtails

	STD	SCD	LCD
Part No.			
OM2 6 ports		100131027	100131039
OM2 12 ports		100131028	100131040
OM2 24 ports		100131029	100131041
OM3 6 ports		100131030	100131042
OM3 12 ports		100131031	100131043
OM3 24 ports		100131032	100131044
OM4 6 ports		100131033	100131045
OM4 12 ports		100131034	100131046
OM4 24 ports		100131035	100131047
OM5 6 ports			100131048
OM5 12 ports			100131049
OM5 24 ports			100131050
SM/MM 6 adaptors	100131021		
SM/MM 12 adaptors	100131022		
SM/MM 24 adaptors	100131023		
OS2/P 6 adaptors		100131024	100131036
OS2/P 12 adaptors		100131025	100131037
OS2/P 24 adaptors		100131026	100131038

1.2 19“ FO Patch Panels

1.2.3 Basis-V with Pigtails

- For installation of multifiber cables and TICNET pre-terminated cables
- Fixed housing
- 50 mm recessed mounting possible

Scope of delivery

- Housing with 2 cable entries for M20 and M25 cable glands each
- 1x cable gland M20 for 5-9 mm
- 1x cable gland M25 for 9-16 mm
- 2x covers for M20 and M25
- Splice cassette with integrated crimp splice holders for max. 24x splices and cover
- frontplate for max. 24 adaptors
- Adaptors and pigtails see tables
- Cover
- SC- and LC-Pigtails in Grade B + PVP Level 2

Crimp splice protection System Telekom and labeling strips are included in the scope of delivery with pigtails.
Customized design via TicNet.

Patch panel comes with adaptors and splice cassette



BASIS-V with Pigtails

Part No.	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
OM1 6 ports	100131172							
OM1 12 ports	100131173							
OM1 24 ports	100131174							
OM2 6 ports	100131175	100131187	100131205					
OM2 12 ports	100131176	100131188	100131206					
OM2 24 ports	100131177	100131189	100131207					
OM3 6 ports	100131178	100131190	100131208	100131346	100131412	100131429		
OM3 12 ports	100131179	100131191	100131209	100131347	100131415	100131430		
OM3 24 ports	100131180	100131192	100131210	100131348	100131416	100131431		
OM4 6 ports	100131181	100131193	100131211	100131349	100131417	100131449		100131485
OM4 12 ports	100131182	100131194	100131212	100131350	100131418	100131450		100131486
OM4 24 ports	100131183	100131195	100131213	100131351	100131419	100131451		100131487
OM5 6 ports		100131196	100131214	100131352				100131488
OM5 12 ports		100131197	100131215	100131404				100131489
OM5 24 ports		100131198	100131216	100131405				100131490
SM/MM 6 adaptors								
SM/MM 12 adaptors								
SM/MM 24 adaptors								
OS2/A 6 adaptors			100131202	100131343	100131409	100131426		100131482
OS2/A 12 adaptors			100131203	100131344	100131410	100131427		100131483
OS2/A 24 adaptors			100131204	100131345	100131411	100131428		100131484
OS2/P 6 adaptors	100131169	100131184	100131199	100131321	100132163	100131420		100131479
OS2/P 12 adaptors	100131170	100131185	100131200	100131326	100131406	100131421		100131480
OS2/P 24 adaptors	100131171	100131186	100131201	100131330	100131407	100131425		100131481

Basis-V without Pigtails / without Splice cassette 1.2.4



BASIS-V without Pigtails

Part No.	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
OM1 6 ports								
OM1 12 ports								
OM1 24 ports								
OM2 6 ports		100131509	100131572					
OM2 12 ports		100131512	100131573					
OM2 24 ports		100131513	100131574					
OM3 6 ports		100131514	100131575	100131614				
OM3 12 ports		100131515	100131576	100131637				
OM3 24 ports		100131531	100131578	100131638				
OM4 6 ports		100131534	100131580	100131639				100131678
OM4 12 ports		100131535	100131581	100131640				100131679
OM4 24 ports		100131536	100131592	100131641				100131680
OM5 6 ports		100131537	100131593	100131642				100131681
OM5 12 ports		100131538	100131596	100131643				100131682
OM5 24 ports		100131539	100131597	100131644				100131683
SM/MM 6 adaptors	100131497						100131669	
SM/MM 12 adaptors	100131498						100131670	
SM/MM 24 adaptors	100131500						100131671	
OS2/A 6 adaptors		100131505	100131569	100131605	100131648	100131666		100131675
OS2/A 12 adaptors		100131506	100131570	100131612	100131658	100131667		100131676
OS2/A 24 adaptors		100131507	100131571	100131613	100131659	100131668		100131677
OS2/P 6 adaptors		100131501	100131540	100131598	100131645	100131663		100131672
OS2/P 12 adaptors		100131502	100131567	100131600	100131646	100131664		100131673
OS2/P 24 adaptors		100131504	100131568	100131602	100131647	100131665		100131674

1.2

1.2 19“ FO Patch Panels

1.2.5 Profi-V with Pigtails

- For installation of loose tube cables
- Slide-out design
- Fixed rear panel for secure cable attachement

Scope of delivery

- Housing with 2 cable entries for M25
- 1x cable gland M25 for 9-16 mm
- 1x cover for M25
- 1x fiber protection tube with 12 mm inner diameter
- frontplate for max. 24 adaptors
- Splice cassette with integrated splice holders for max. 24x splices und cover
- Adaptors and pigtails see table
- Cover
- SC- and LC-Pigtails in Grade B + PVP Level 2

Crimp splice protection System Telekom and labeling strips are included in the scope of delivery with pigtails.
Customized design via TicNet.

Patch panel comes with adaptors and splice cassette



Profi-V with Pigtails

	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
Part No.								
OM1 6 ports	100131691							
OM1 12 ports	100131693							
OM1 24 ports	100131695							
OM2 6 ports	100131696	100131708	100131726					
OM2 12 ports	100131700	100131709	100131727					
OM2 24 ports	100131701	100131710	100131728					
OM3 6 ports		100131711	100131729			100131792		
OM3 12 ports		100131712	100131730			100131793		
OM3 24 ports		100131713	100131731			100131794		
OM4 6 ports		100131714	100131732	100131753	100131772	100131795		100131839
OM4 12 ports		100131715	100131743	100131754	100131773	100131796		100131840
OM4 24 ports		100131716	100131744	100131755	100131774	100131797		100131842
OM5 6 ports		100131717	100131745	100131756	100131775			100131844
OM5 12 ports		100131718	100131746	100131757	100131785			100131845
OM5 24 ports		100131719	100131747	100131758	100131786			100131846
SM/MM 6 adaptors								
SM/MM 12 adaptors								
SM/MM 24 adaptors								
OS2/A 6 adaptors		100131705	100131723	100131750	100131769	100131789		100131835
OS2/A 12 adaptors		100131706	100131724	100131751	100131770	100131790		100131836
OS2/A 24 adaptors		100131707	100131725	100131752	100131771	100131791		100131838
OS2/P 6 adaptors		100131702	100131720	100132164	100131759	100132165		100131798
OS2/P 12 adaptors		100131703	100131721	100131748	100131760	100131787		100131833
OS2/P 24 adaptors		100131704	100131722	100131749	100131768	100131788		100131834

Profi-V without Pigtails / without Splice cassette 1.2.6



Profi-V without Pigtails

Part No.	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
OM1 6 ports								
OM1 12 ports								
OM1 24 ports								
OM2 6 ports		100131858	100131944					
OM2 12 ports		100131859	100131945					
OM2 24 ports		100131860	100131946					
OM3 6 ports		100131861	100131947	100132016				
OM3 12 ports		100131862	100131948	100132017				
OM3 24 ports		100131863	100131949	100132018				
OM4 6 ports		100131864	100131950	100132019				100132046
OM4 12 ports		100131865	100132005	100132020				100132047
OM4 24 ports		100131866	100132006	100132021				100132048
OM5 6 ports		100131867	100132007	100132022				100132049
OM5 12 ports		100131936	100132008	100132023				100132050
OM5 24 ports		100131937	100132009	100132024				100132051
SM/MM 6 adaptors	100131847						100132037	
SM/MM 12 adaptors	100131848						100132038	
SM/MM 24 adaptors	100131849						100132039	
OS2/A 6 adaptors		100131853	100131941	100132013	100132028	100132034		100132043
OS2/A 12 adaptors		100131854	100131942	100132014	100132029	100132035		100132044
OS2/A 24 adaptors		100131857	100131943	100132015	100132030	100132036		100132045
OS2/P 6 adaptors		100131850	100131938	100132010	100132025	100132031		100132040
OS2/P 12 adaptors		100131851	100131939	100132011	100132026	100132032		100132041
OS2/P 24 adaptors		100131852	100131940	100132012	100132027	100132033		100132042

1.2 19“ FO Patch Panels

1.2.7 Profi-T with Pigtails

- For the connection of loose tube cables & TICNET lines
- Fixed installation
- Up to 50 mm recessed mounting possible

Scope of delivery

- housing with each 2 cable entries for M20
- and M25 cable glands
- 1 cable gland M20 for 5-9 mm
- 1 cable gland M25 for 9-16 mm
- 2 covers for M20 and M25
- splice cassette with integrated crimp splice holders for
- max. 24 fibers and cover
- frontplate for max. 24 adaptors
- adaptors and pigtails see tables
- Cover
- SC- and LC-Pigtails in Grade B + PVP Level 2

Crimp splice protection System Telekom and labeling strips are included in the scope of delivery with pigtails.

Patch Panels equipped with couplings and splice cassette



Profi-T with Pigtails

Part No.	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
OM1 6 ports								
OM1 12 ports								
OM1 24 ports								
OM2 6 ports		100131375	100131398					
OM2 12 ports		100131376	100131399					
OM2 24 ports		100131377	100131400					
OM3 6 ports		100131378	100131870					
OM3 12 ports		100131379	100131871					
OM3 24 ports		100131380	100131872					
OM4 6 ports		100131381	100131873	100131879	100131908	100131920		100131957
OM4 12 ports		100131382	100131874	100131880	100131909	100131921		100131958
OM4 24 ports		100131383	100131875	100131882	100131910	100131922		100131959
OM5 6 ports		100131384	100131876	100131899	100131911	100131923		100131960
OM5 12 ports		100131385	100131877	100131900	100131912	100131924		100131961
OM5 24 ports		100131386	100131878	100131901	100131913	100131925		100131962
SM/MM 6 adaptors								
SM/MM 12 adaptors								
SM/MM 24 adaptors								
OS2/A 6 adaptors		100131372	100131395		100131905	100131917		100131954
OS2/A 12 adaptors		100131373	100131396		100131906	100131918		100131955
OS2/A 24 adaptors		100131374	100131397		100131907	100131919		100131956
OS2/P 6 adaptors		100131369	100131387		100131902	100131914		100131951
OS2/P 12 adaptors		100131370	100131388		100131903	100131915		100131952
OS2/P 24 adaptors		100131371	100131394		100131904	100131916		100131953



Profi-T without Pigtails

Part No.	STD	SCD	LCD	LCQ	E2000	E2000 Compact	MPO	MDC-Q
OM1 6 ports								
OM1 12 ports								
OM1 24 ports								
OM2 6 ports								
OM2 12 ports								
OM2 24 ports								
OM3 6 ports								
OM3 12 ports								
OM3 24 ports								
OM4 6 ports			100131969	100131972				100131999
OM4 12 ports			100131970	100131973				100132000
OM4 24 ports			100131971	100131974				100132001
OM5 6 ports				100131975				100132002
OM5 12 ports				100131976				100132003
OM5 24 ports				100131977				100132004
SM/MM 6 adaptors							100131990	
SM/MM 12 adaptors							100131991	
SM/MM 24 adaptors							100131992	
OS2/A 6 adaptors			100131966		100131981	100131987		100131996
OS2/A 12 adaptors			100131967		100131982	100131988		100131997
OS2/A 24 adaptors			100131968		100131983	100131989		100131998
OS2/P 6 adaptors		100131963			100131978	100131984		100131993
OS2/P 12 adaptors		100131964			100131979	100131985		100131994
OS2/P 24 adaptors		100131965			100131980	100131986		100131995

1.3 Modular Patch Panel HD³-ES

	HD³-ES	3U/7PU
Mechanical Characteristics		
Construction width	19“	19“
Available heights	0.5, 1 and 3U	1 and 3U
RJ45 Module	6x/8x RJ45	6x RJ45
Fiber optic modules	Splice, FanOut, Patch, Mesh	Splice
Coaxial modules	6x SMA, 6x BNC	-
Insertion direction	Front	Front
Module construction heights	0.5U and 1U	3U
Target groups	Small and medium data centers	

1.3.1 HD³-ES housing & accessories



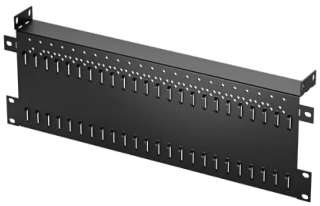
Part No.	Remarks
100021877	Top cover for HD³-ES carrier 1U, for tool-free Installation on an HD³-ES carrier of 1U



Part No.	Remarks
100021876	HD³-ES carrier 0.5U, 19", with 4 open/horizontal slots for insertion of max. 4 HD³-ES modules of height 0.5U
100021875	HD³-ES carrier 1U, 19", with 4 open/horizontal slots for insertion of max. 4 HD³-ES modules of height 1U or max. 8 HD³-ES modules of height 0.5U or a combination here of
100025720	HD³-ES carrier 3U, 19", with 12 open/vertical slots for insertion of max. 12 HD³-ES modules of height 1U or max. 24 HD³-ES modules of height 0.5U or a combination here of



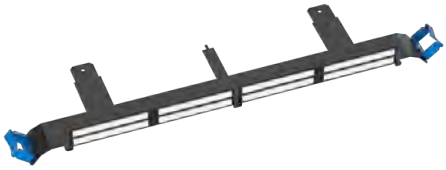
Part No.	Remarks
100021646	Blank module for HD³-ES carrier to cover a 0.5U slot
100021647	Blank module for HD³-ES carrier to cover a 1U slot



Part No.	Remarks
100043729	Cable and cable splitter management for horizontal and vertical rack mounting, ideal in combination with HD³-ES



Part No.	Remarks
100022666	HD³-ES rear side cable/cable gland holder M20, for self-assembly with standard tools
100022667	HD³-ES rear side cable/cable gland holder M25, for self-assembly with standard tools



Part No.	Remarks
100021629	HD³-ES front side patch management 0.5U, for frontside mounting on a HD³-ES carrier 0.5U
100021630	HD³-ES front side patch management 1U, for tool-free/frontside mounting on a HD³-ES carrier 1U
100021631	HD³-ES front side patch management 2U, for tool-free/frontside mounting on two HD³-ES carrier 1U
100021632	HD³-ES front side patch management 3U, for tool-free/frontside mounting on a HD³-ES carrier 3U

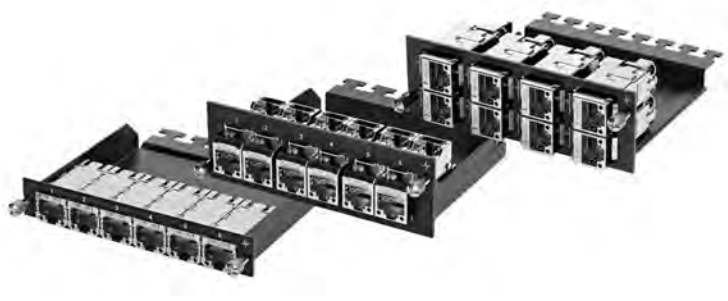
1.3.2 HD³-ES Module for medium packing densities up to 48 Duplex Ports/HU



Part No.	Remarks	Fiber type	Number of Fibers
100022380	HD³-ES FanOut module 0.5U 6xLC-D OS2/PC, adaptors blue, integrated laser protector	OS2	12
100022381	HD³-ES FanOut module 0.5U 6xLC-D OS2/APC adaptors green, integrated laser protector	OS2	12
100022382	HD³-ES FanOut module 0.5U 6xLC-D OM3, adaptors aqua, integrated laser protector	OM3	12
100022383	HD³-ES FanOut module 0.5U 6xLC-D OM4, adaptors violet, integrated laser protector	OM4	12
100022384	HD³-ES FanOut module 0.5U 6xLC-D OM5, adaptors limegreen, integrated laser protector	OM5	12



Part No.	Remarks	Fiber type	Number of Fibers
100022385	HD³-ES FanOut module 1U 12xLC-D OS2/PC, adaptors blue, integrated laser protector	OS2	24
100022386	HD³-ES FanOut module 1U 12xLC-D OS2/APC, adaptors green, integrated laser protector	OS2	24
100022387	HD³-ES FanOut module 1U 12xLC-D OM3, adaptors aqua, integrated laser protector	OM3	24
100022388	HD³-ES FanOut module 1U 12xLC-D OM4, adaptors violet, integrated laser protector	OM4	24
100022389	HD³-ES FanOut module 1U 12xLC-D OM5, adaptors limegreen, integrated laser protector	OM5	24



Part No.	Remarks
100120920	HD³-ES coaxial module 0.5 U with 6x SMA
100120925	HD³-ES coaxial module 1.0 U for 6x BNC
100021643	HD³-ES RJ45 module 0.5U for 6x STX, accepts 6x Telegärtner STX modules
100021644	HD³-ES RJ45 module 1U for 6x AMJ.S/-SL/-Cat.8.1
100021645	HD³-ES RJ45 module 1U for 8x AMJ.S/-SL/-Cat.8.1



Part No.	Remarks	Number of Fibers
100022374	HD³-ES patch module 0.5U, 6x MPO/MTP, adaptors black	6



Part No.	Remarks	Number of Fibers
100022364	HD³-ES patch module 0.5U, 6x LC-D OS2/PC, adaptors blue, integrated laser protector	6
100022365	HD³-ES patch module 0.5U, 6x LC-D OS2/APC, adaptors green, integrated laser protector	6
100022366	HD³-ES patch module 0.5U, 6x LC-D OM3, adaptors aqua, integrated laser protector	6
100022367	HD³-ES patch module 0.5U, 6x LC-D OM4, adaptors violet, integrated laser protector	6
100022368	HD³-ES patch module 0.5U, 6x LC-D OM5, adaptors limegreen, integrated laser protector	6

1.3.2 HD³-ES Module für mittlere Packungsdichten bis 48 Duplex Ports/HE



Part No.	Remarks	Number of Fibers
100022369	HD³-ES patch module 1U, 12x LC-D OS2/PC, adaptors blue, integrated laser protector	12
100022370	HD³-ES patch module 1U, 12x LC-D OS2/APC, adaptors green, integrated laser protector	12
100022371	HD³-ES patch module 1U, 12x LC-D OM3, adaptors aqua, integrated laser protector	12
100022372	HD³-ES patch module 1U, 12x LC-D OM4, adaptors violet, integrated laser protector	12
100022373	HD³-ES patch module 1U, 12x LC-D OM5, adaptors limegreen, integrated laser protector	12



Part No.	Remarks	Fiber pigtails	Number of fibers
100022375	HD³-ES splice module 0.5U, 6xLC-D OS2/PC, adaptors blue, integrated laser protector, pigtails 12x OS2/PC preinstalled	12x OS2/9/125	12
100022376	HD³-ES splice module 0.5U, 6xLC-D OS2/APC, adaptors green, integrated laser protector, pigtails 12x OS2/APC preinstalled	12x OS2/9/125	12
100022377	HD³-ES splice module 0.5U, 6xLC-D OM3, adaptors aqua, integrated laser protector, pigtails 12x OM3 preinstalled	12x OM3/50/125	12
100022378	HD³-ES splice module 0.5U, 6xLC-D OM4, adaptors violet, integrated laser protector, pigtails 12x OM4 preinstalled	12x OM4/50/125	12
100022379	HD³-ES splice module 0.5U, 6xLC-D OM5, adaptors limegreen, integrated laser protector, pigtails 12x OM5 preinstalled	12x OM5/50/125	12

HD³-ES Module for maximum packing densities up to 72/96/144 Duplex Ports/HU 1.3.3



➨ Part No.	Remarks	Number of Fibers
100125983	HD³-ES module FanOut 0,5HE, 6x MDCH, OM4, 3x MPO12, violet	36
100125989	HD³-ES module FanOut 0,5HE, 6x MDCH, OS2, 3x MPO12, blue	36
100125977	HD³-ES module FanOut 0,5HE, 6x MDCH, OS2/A, 3x MPO12, green	36
100125986	HD³-ES module FanOut 1HE, 12x MDCH, OM4, 6x MPO12, violet	72
100125992	HD³-ES module FanOut 1HE, 12x MDCH, OS2, 6x MPO12, blue	72
100125980	HD³-ES module FanOut 1HE, 12x MDCH, OS2/A, 6x MPO12, green	72



➨ Part No.	Remarks	Number of Fibers
100125982	HD³-ES module FanOut 0,5HE, 6x MDCQ, OM4, 2x MPO12, violet	24
100125984	HD³-ES module FanOut 0,5HE, 6x MDCQ, OM4, 3x MPO8, violet	24
100125988	HD³-ES module FanOut 0,5HE, 6x MDCQ, OS2, 2x MPO12, blue	24
100125990	HD³-ES module FanOut 0,5HE, 6x MDCQ, OS2, 3x MPO8, blue	24
100125976	HD³-ES module FanOut 0,5HE, 6x MDCQ, OS2/A, 2x MPO12, green	24
100125978	HD³-ES-module FanOut 0,5HE, 6x MDCQ, OS2/A, 3x MPO8, green	24
100125985	HD³-ES module FanOut 1HE, 12x MDCQ, OM4, 4x MPO12, violet	48
100125987	HD³-ES module FanOut 1HE, 12x MDCQ, OM4, 6x MPO8, violet	48
100125991	HD³-ES module FanOut 1HE, 12x MDCQ, OS2, 4x MPO12, blue	48
100125993	HD³-ES module FanOut 1HE, 12x MDCQ, OS2, 6x MPO8, blue	48
100125979	HD³-ES module FanOut 1HE, 12x MDCQ, OS2/A, 4x MPO12, green	48
100125981	HD³-ES module FanOut 1HE, 12x MDCQ, OS2/A, 6x MPO8, green	48

Part No.	Remarks	Number of Fibers
100125996	HD³-ES module patch 0,5HE, 6x MDCQ OM4, violet	24
100125998	HD³-ES module patch 0,5HE, 6x MDCQ OS2, blue	24
100125994	HD³-ES module patch 0,5HE, 6x MDCQ OS2/A, green	24
100125997	HD³-ES module patch 1HE, 12x MDCQ, OM4, violet	48
100125999	HD³-ES module patch 1HE, 12x MDCQ, OS2, blue	48
100125995	HHD³-ES module patch 1HE, 12x MDCQ, OS2/A, green	48

1.4 Modular Patch Panel for 3HU/7PU components

1.4.1 3HU/7PU modules

Catalog articles 3HU/7PU

Type	Number	OS2/PC	OS2/APC	OM1	OM2	OM3	OM4
Part No.							
E2k	12	100127045	100034950	-	-	100124775	100121577
E2k	6	100127048	100127049	-	-	100127050	100127051
E2kC (horizontal)	6	100127052	100022608	-	-	100127053	100127054
LC-D	6	100022607	100043390	-	100022603	100022615	100022611
LC-D	12	100022609	100022617	-	-	100122678	100022612
LC-Q	6	100127055	100127056	-	-	100127057	100022613
MDCQ	6	100127058	100127059	-	-	100127060	100127061
SC-D	6	100022606	100127062	100022605	100022602	100022614	100022610
ST-D	6	100127064	-	100127065	100022604	100022616	-

Technically feasible 3HU/7PU modules

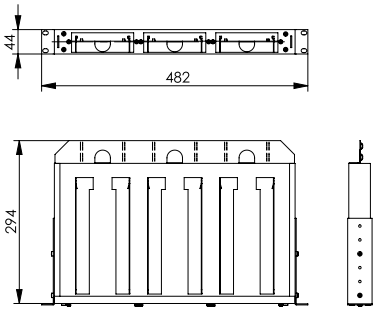
3HE/7TE Splice modulesl	Number of Coupler	Couppler Type	Fiber Type	with/without Pigtails
FO-M STD 3/7 SPM	6	E2000	OS2/PC	PT
		E2000 Compact	OS2/APC	
		LC-D	OM1	
		LC-Q	OM2	
	12			nPT
		MDC-Q	OM3	
		SC-D	OM4	
		ST-D	OM5	

Customer-specific variants via TICNET
- Fiber classes not listed
- Mixed modules
- Accessories
- Fully assembled subracks
- Variants without pigtails



Part No.	Description	Assembly	Colour
100021706	19" FO Distribution panel 1 HU	senkrecht	light grey RAL 7035
100021705	19" FO Distribution panel 1 HU	waagrecht	light grey RAL 7035
100021110	Fiber protection tube, both ends with M25 gland, l = 2.5 m		
100021527	Dummy plate for distribution panel		light grey RAL 7035





Part No.	Description	Remarks	HU
100021750	19" FO Module Carrier 1 HU	for max. 3 FO modules 3HU/7PU	1

3HU/84TE housing & accessories 1.4.2



Part No.	Description	Remarks	Colour
100022161	19" FO Module Carrier 3 HU / 84 PU	Accepts up to 12 FO Modules 3 HU/ 7 PU	aluminium sheet anodised

1.4.2

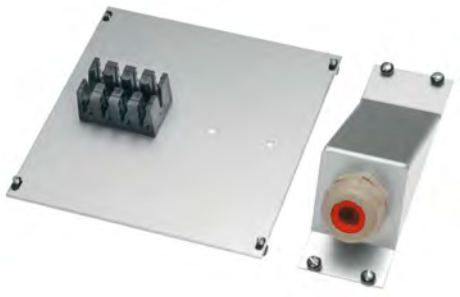
1.4.2 3HU/84TE housing & accessories



Part No.	Description	Assembly	Colour
100021704	19" FO loop storage box 1 HU	horizontal	light grey RAL 7035

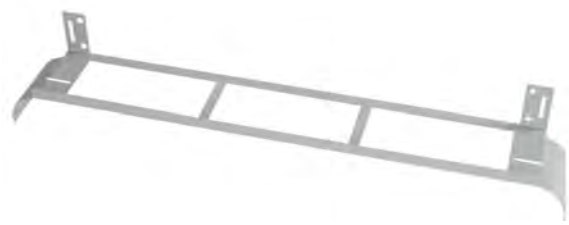


Part No.	Description	HU	Cable gland	Cable entry
100021524	Cable entry	1	1xM25	angular 30
100021523	Cable entry	1	2xM25	straight
100021521	Cable entry	1	-	closed
100021526	Cable entry	1	for cable ties	straight



Part No.	Description	HU	PU
100022162	Cable Fixing Set for Module Carrier	3	8

Accessories 1.5



Part No.	Description
100021528	Cable Management for 19" FO Patch Panel 1 HU for Basis-V, Profi-V, Profi-T
100021525	Cable Management for 19" FO Patch Panel 2 HU or use with Velcro fastener set for Basis-V, Profi-V, Profi-T
100026351	Velcro fastener set (4 pcs.) for cable management for Basis-V, Profi-V, Profi-T



Part No.	Short name
100022736	Carrier with marking strip for 19" front plates, screw mounting



Part No.	Short name
100021542	19" patch panel with 5 cable guide bars (plastic)



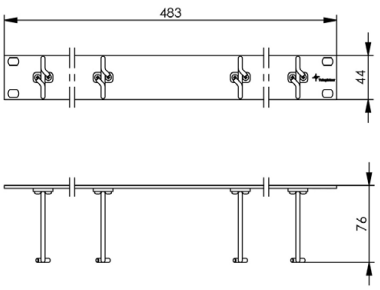
Part No.	Short name
100021486	Cable Management plate for 19" patch panels 1 HU

1.5 Accessories



Part No.	Short name
100017512	Cable management bar for 19" patch panels





Part No.	Short name
100021513	19" patch panel with 4 cable guide bars (metal)



Part No.	Description
100033591	FO-PP Acc 1U brush panel RAL7035



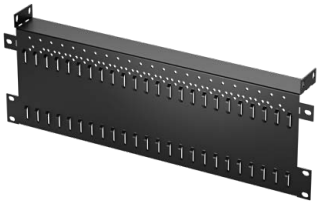
Part No.	Description
100033569	FO-PP Acc 1U brush panel RAL9005



Part No.	Description
100022636	Screws for adaptors SC, SC Duplex, ST Duplex, ST/SC Duplex

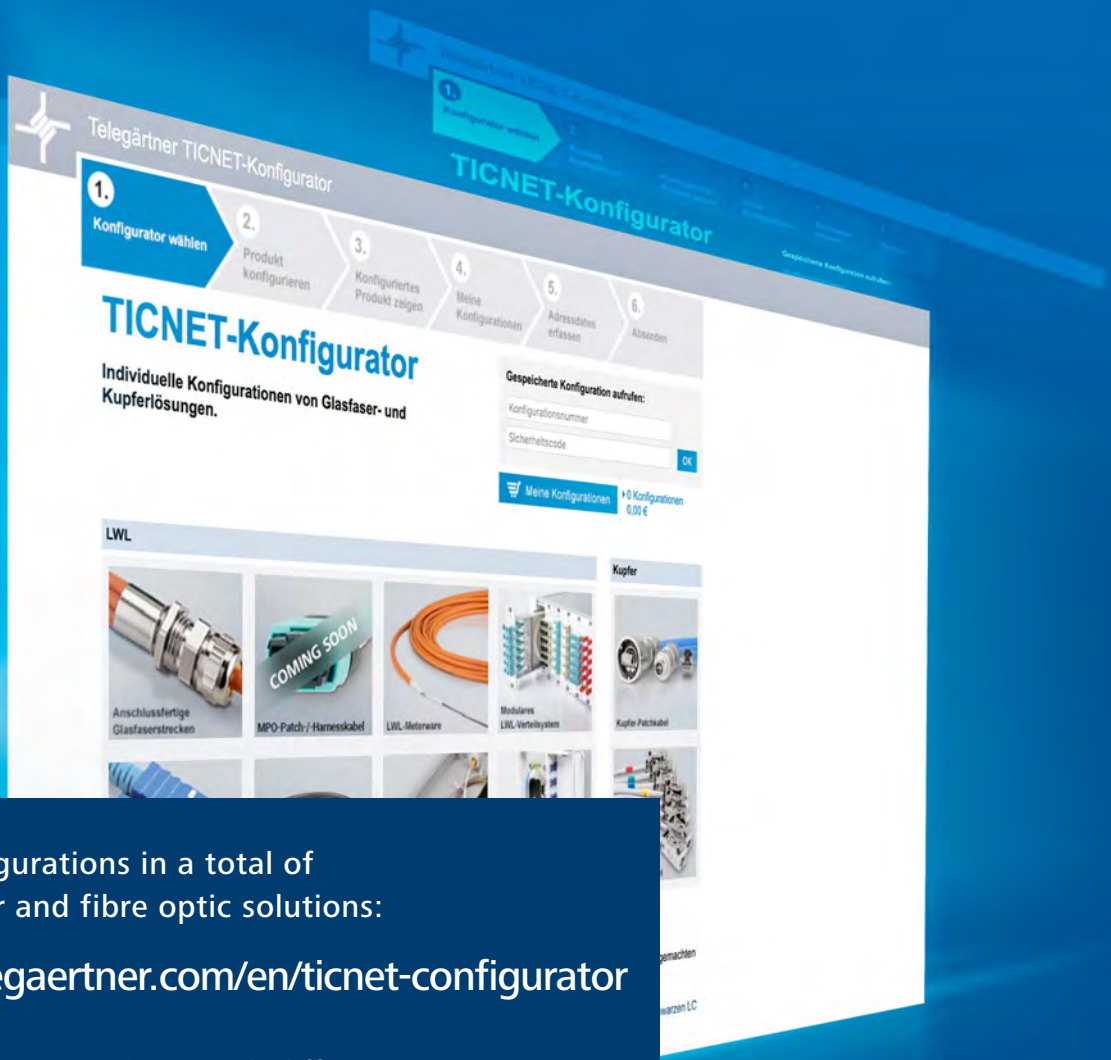


Part No.	Short name
100022635	Fixing set for patch panels (4 screws M6x16 with nuts)



Part No.	Remarks
100043729	Cable and cable splitter management for horizontal and vertical rack mounting, ideal in combination with HD³-ES

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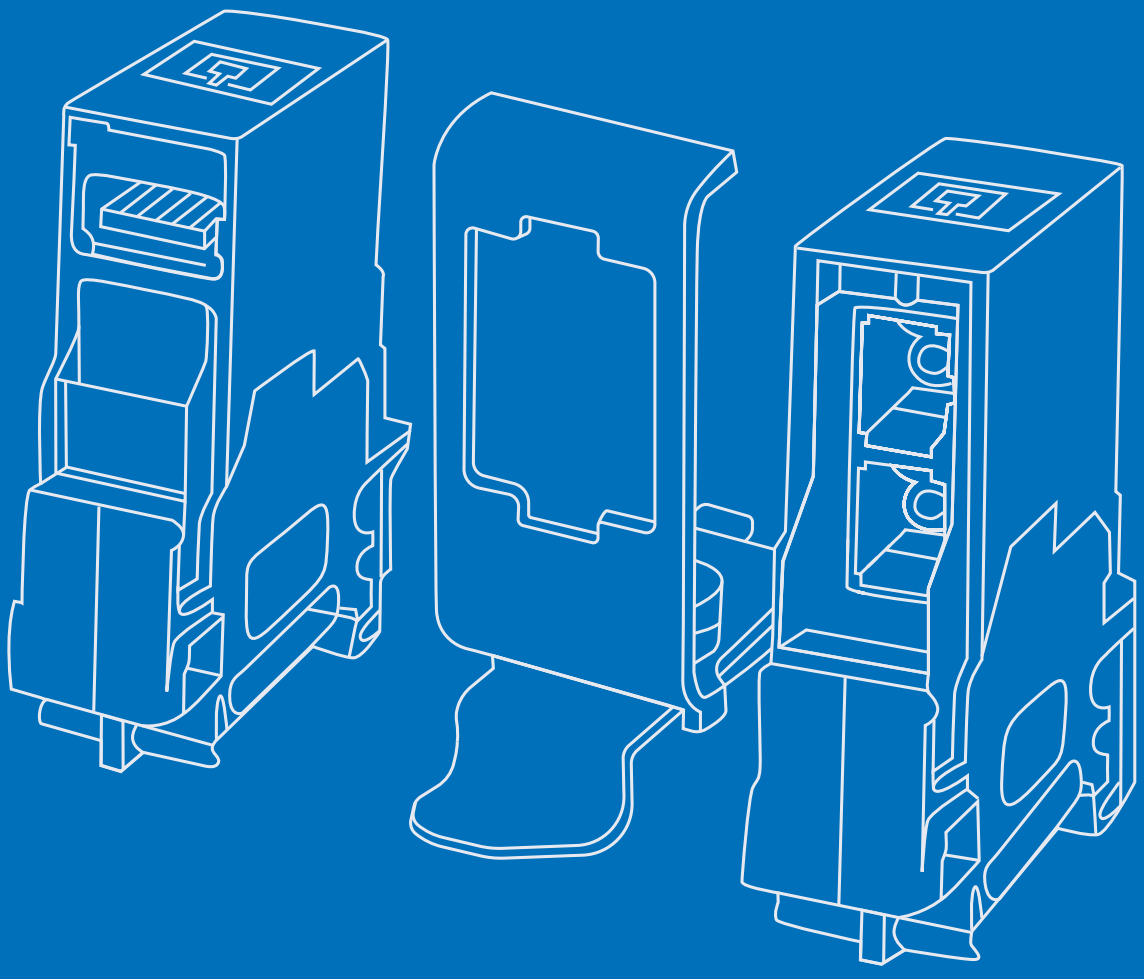
Fibre optic connection, twisted pair with different connectors and different housing solutions

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Select product	**Configure product**	**Set labelling (optional)**	**Show product**	**Enter address data & send request**

2

COMPONENTS FOR THE FLOOR DISTRIBUTOR - RJ45/FO



COMPONENTS FOR THE CONTROL CABINET
RJ45/FO



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2.6 Mounting Rail Outlet TS45 74

For generic cabling in control cabinets, Telegärtner offers outlets and distributors which can be mounted directly next to one another on the mounting rail. They form the ideal connection between the arriving installation lines and the wiring inside the control cabinet. The components can be quickly and easily mounted on conventional TH 35 rails by simply clicking them in place.

STX Mounting Rail Distributor 2.1

Mechanical Characteristics	
Material: housing	sheet steel zinc plated, powder coated, light grey RAL 7035
Material: front plate	sheet steel zinc plated, powder coated, light grey RAL 7035
Material: top hat rail adaptor	sheet steel nickel plated
Cable entry	cable gland M20 for 5-9 mm
Panel piercings	ST Duplex, SC Duplex, LC Duplex, E2000 Compact
Dimensions in mm: Width	35 / 70
Dimensions in mm: Heigth	125
Dimensions in mm: Depth	140
Environmental Requirements	
Shock	250 ms^2
Vibration sinusoidal (9 Hz - 500 Hz)	50 ms^2
Protection against particulate ingress	IP2X
Protection against water / immersion	IPX0
Ambient temperature	-40 °C to + 70 °C
Rapid change of temperature	-40 °C to + 70 °C / 25 cycles t=30 min
Climatic damp heat	+25 °C / +65 °C / 93% RH // -10 °C / 21 cycles
Flowing mixed gas	+25 °C / 73% RH / 4 days, H_2S / SO_2

Technically feasible STX mounting rail distributors

3U/7PU splice module	Max. number of couplings	Coupling type	Fiber type	with/without Pigtails
FO-M STD 3/7 SPM	6	ST-D	OS2/PC	PT
	12	SC-D	OS2/APC	nPT
		LC-D	OM1	
		LC-Quad	OM2	
		E2000 Compact	OM3	
			OM4	
			OM5	

Customized variants via TICNET
- Not listed fiber classes
- Mixed modules
- Accessories
- Variants without pigtails

2.1.1 STX Mounting Rail Distributor assembled with adaptors



STX mounting rail distributor, single design with pigtails

Type	Number	OS2/PC	OS2/APC	OM1	OM2	OM3	OM4	OM5
Part number								
ST-D	6	100022815	-	-	100022830	100022857	100022843	-
SC-D	6	100022816	100130835	-	100022831	100022858	100022847	-
LC-D	6	100022818	100130834	-	100022832	100022860	100022846	-
E2000 Compact	6	100022819	100022820	-	100022833	100022861	100130839	-

2.1.2 STX Mounting Rail Distributor assembled with adaptors and pigtails



STX mounting rail distributor 2-fold design with pigtails

Type	Number	OS2/PC	OS2/APC	OM1	OM2	OM3	OM4	OM5
Part number								
STD	12	100022822	-	-	100022835	100022864	100022845	-
SCD	12	100022823	100130837	-	100022836	100022865	100022849	-
LC-D	12	100022824	100130838	-	100022837	100022866	100022850	-

STX Mounting Rail Distributor modular 2.2

Technical feasible STX Mounting Rail Distributor modular

3U/7PU splice module	Max. number of couplings	Coupling type	Fiber type	with/without Pigtails
FO-M STD 3/7 SPM	6	ST-D	OS2/PC	PT
	12	SC-D	OS2/APC	nPT
		LC-D	OM1	
		LC-Quad	OM2	
		E2000 Compact	OM3	
			OM4	
			OM5	

Customer-specific variants via SpezTab
- Fiber classes not listed
- Mixed modules
- Accessories

STX Mounting Rail Distributor Modules assembled with adaptors 2.2.1



STX mounting rail distributor modular without pigtails

Type	Number	OS2/PC	OS2/APC	OM1	MM/OM2	OM3	OM4	OM5
Part number								
ST-D	6	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-
SC-D	6	100022805	-	-	100022872	100022887	100022876	-
	12	-	-	-	-	-	-	-
LC-D	6	100022806	-	-	100022873	100022888	100022877	100022855
	12	100022807	-	-	100022874	100022889	100022878	100022856
LC-Q	6	100022808	-	-	100022875	100022890	100022879	-
	12	-	-	-	-	-	-	-

2.2.2 STX Mounting Rail Distributor Modules assembled with splice cassette, pigtails and adaptors



STX trunking rail distributor modular with pigtails

Type	Number	OS2/PC	OS2/APC	OM1	MM/OM2	OM3	OM4	OM5
Part number								
ST-D	6	100022829	-	100022814	100022842	-	-	-
	12	-	-	-	-	-	-	-
SC-D	6	100022825	-	100022810	100022838	100022867	100022851	-
	12	-	-	-	-	-	-	-
LC-D	6	100022826	100022871	100022811	100022839	100022868	100022852	100022880
	12	100022827	-	100022812	100022840	100022869	100022853	100022881
LC-Q	6	100022828	-	100022813	100022841	100022870	100022854	-
	12	-	-	-	-	-	-	-

2.3 Accessories for Mounting Rail Distributor

Part No.	Description	Remarks
100022699	side panel set for modular STX mounting rail distributor	left and right side panel, replacement for the standard side panels included with the STX distributors



Part No.	Description	Remarks
100021117	Crimp splice protector	System Telekom
100021123	Crimp splice protector	System Telekom, PU = 150 pcs.



Part No.	Description	Remarks
100021328	Cable gland M20 for cable diameter 5 - 9 mm	Polyamide PA6, grey
100021350	Cable gland M20 for cable diameter 9 - 13 mm	Polyamide PA6, grey



Part No.	Description	Remarks
100021124	Micro splice protector for shrink splice	Ø 1.3 mm, L=30 mm
100021121	Splice protector for shrink splices	Ø 3 mm, L=60 mm
100021120	Splice protector for shrink splices	Ø 3 mm, L=45 mm



Part No.	Description	Remarks
100021116	Splice holder for 12 crimp splice protectors	System Telekom



Part No.	Description	Remarks
100021119	Splice holder for 6 shrink splices	for shrink splice protector Ø 3 mm

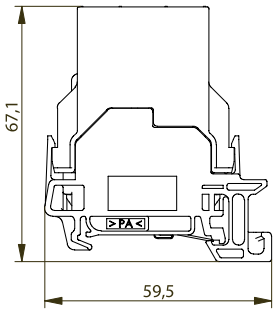
STX Mounting Rail Outlet 2.4

The STX DIN rail connectors with STEADYTEC® technology are available with a large selection of inserts (RJ45, USB, fiber optic couplings). The freely selectable inserts, which can be easily inserted into the connector housings, provide a high degree of flexibility both in the selection of articles and in the areas of application. The types for the fully shielded RJ45 modules Cat.6_A and RJ45 couplings Cat.6 Class E_A have a potential connection that can be switched during operation. This enables simple fault analysis in the earthing concept and separation of the potentials of the network and control cabinet.

	STX Mounting Rail Outlets RJ45 Module Cat.6_A	STX Mounting Rail Outlets RJ45 Coupler Cat.6 Class E_A	STX Mounting Rail Outlets USB Coupler
Standards			
Generic cabling systems	ISO/IEC 11801; EN 50173-1; ISO/IEC 24702; IEC 61918		-
Custom-designed cabling systems	PROFINET Installation Guideline		-
Connectors	IEC 60603-7-51	IEC 60603-7-51	IEC 61076-3-107
Mounting rail TH35	DIN 60715	DIN 60715	DIN 60715
Specification for low-voltage switchgear and controlgear	DIN EN 60947-1; DIN EN 60947-7-1		-
Mechanical Characteristics			
Insertion force	≤ 30 N	≤ 30 N	≤ 66 N
Life (mating cycles RJ45, RJ12, RJ11)	≥ 750	≥ 750	≥ 1500
Material: housing / mounting rail	PA UL94 V0 grey	PA UL94 V0 grey	PA UL94 V0 grey
Material: earth contact spring	Spring steel 5-8 µm Sn on 3 µm Cu		-
Material: jack housing	zinc diecast	zinc diecast	PC UL94 V0 black
Material: housing finish	CuSnZn	nickel plated	-
Material: shield	German silver	German silver	stainless steel or phosphor bronze, min 1 µm Ni
Material: contact spring	spring steel	spring steel	Phosphor Bronze, min 1 µm Ni
Material: contact spring finish	min. 0,8 µm Au on 1,2 µm Ni		
Material: contact IDC termination	CuNi2Si	-	-
Material: IDC termination finish	min. 3-6 µm Sn	-	-
Material: cable ties	PA ZK94 V2	-	-
Cu-Conductor diameter: stranded	0.46-0.76 mm AWG 27/7 - AWG 22/7	-	-
Cu-Conductor diameter: solid	0.41-0.64 mm AWG 26/1 - AWG 22/1	-	-
Core Diameter	0.9-1.6 mm	-	-
Reusable IDC for AWG 22/1; AWG 22/7	≤ 4 cycles	-	-
Reusable IDC für AWG 23/1 - AWG 26/1; AWG 24/7 - AWG 26/7	≤ 10 cycles	-	-
Environmental Requirements			
Climatic damp heat	+40 °C / 93% RH / 7 days	+40 °C / 93% RH / 7 days	+40 °C / 93% RH / 7 days
Coldness	-25 °C / 1 day	-25 °C / 1 day	-25 °C / 1 day
Ambient temperature	-40 °C to + 70 °C	-40 °C to + 70 °C	-40 °C to + 70 °C
Rapid change of temperature	-40 °C to + 70 °C / 25 cycles t=30 min.		
Flowing mixed gas	+25 °C / 73% RH / 4 days, H_2S / SO_2		
Electrical Characteristics			
Current carrying capacity at 50 °C	1 A	1 A	-
PoE+ acc to IEEE 802.3at	fulfilled	fulfilled	-
Transmission Characteristics			
Category 6_A	ISO/IEC 11801, DIN EN 50173-1	-	-
Class E_A (Permanent Link)	ISO/IEC 11801, DIN EN 50173-1	-	-
Class E_A (Channel)	-	ISO/IEC 11801, DIN EN 50173-1	-
10 Gigabit Ethernet acc. to IEEE 802.3an	fulfilled	fulfilled	-
Performance	-	-	Universal Serial Bus Spec. Revision 2.0/3.0

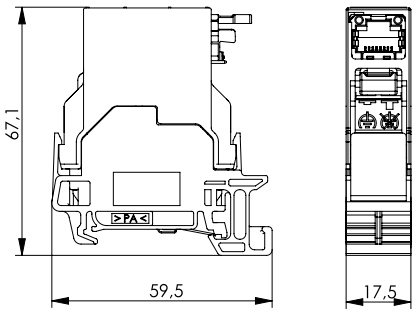
STX Mounting Rail Outlets RJ45 2.4.1





Part No.	Short name	Type	Remarks	Colour
100007437	STX mounting rail outlet	incl. RJ45 coupler Cat.6, suitable for Class E_A Channel	tool-free connectivity, suitable for RJ45/11/12 plugs, mounting rail TH35	light grey

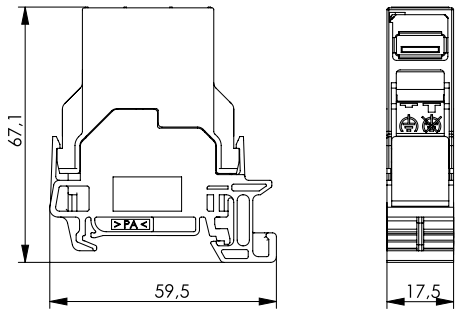




Part No.	Short name	Type	Remarks	Colour
100007435	STX mounting rail outlet	incl. RJ45 jack A Cat.6_A T568A	tool-free connectivity, suitable for RJ45/11/12 plugs, mounting rail TH35	light grey
100007436	STX mounting rail outlet	incl. RJ45 jack B Cat.6_A T568B	tool-free connectivity, suitable for RJ45/11/12 plugs, mounting rail TH35	light grey

STX Mounting Rail Outlets USB 2.4.2





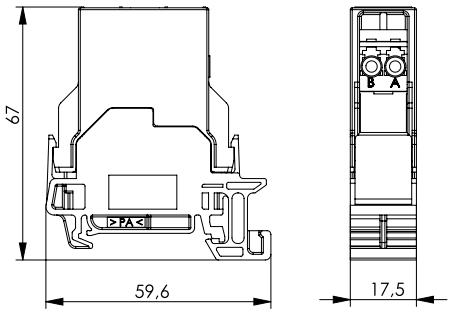
Part No.	Short name	Type	Remarks	Colour
100007438	STX mounting rail outlet	incl. USB 2.0 coupler type A f-f	for mounting rail TH35	light grey
100007440	STX mounting rail outlet	incl. USB 2.0 coupler type A-B f-f	for mounting rail TH35	light grey
100007441	STX mounting rail outlet	incl. USB 3.0 coupler type A f-f	for mounting rail TH35	light grey

2.4.2 STX Mounting Rail Outlets USB

	STX Mounting Rail Outlets with SC Duplex Adaptor	STX Mounting Rail Outlets with LC Duplex Adaptor	STX Mounting Rail Outlets with E2000 Adaptor
Standards			
Generic cabling systems	ISO/IEC 11801; EN 50173-1; ISO/IEC 24702; IEC 61918		
Connectors	IEC 61754-4	IEC 61754-20	IEC 61754-15
Mechanical Characteristics			
Insertion force	≤ 30 N	≤ 30 N	≤ 30 N
Durability (mating cycles)	≥ 1000	≥ 1000	≥ 1000
Material: housing / mounting rail	PA UL94 V0 grey	PA UL94 V0 grey	PA UL94 V0 grey
Material: insert for adaptor	aluminium sheet anodised	aluminium sheet anodised	aluminium sheet anodised
Material: adaptor housing	PC UL94 V0	PEI UL94 VOPEI UL94 VO grey	plastic
Material: adaptor split sleeve	Singlemode: ceramics; Multimode: phosphor bronze	Singlemode: ceramics; Multimode: phosphor bronze	Singlemode: ceramics; Multimode: phosphor bronze
Material: protection cap	TPE UL94 V0	PP	plastic
Environmental Requirements			
Shock	250 ms²	250 ms²	250 ms²
Vibration sinusoidal (9 Hz - 500 Hz)	50 ms²	50 ms²	50 ms²
Protection against particulate ingress	IP2X	IP2X	IP2X
Protection against water / immersion	IPX0	IPX0	IPX0
Climatic damp heat		+40 °C / 93% RH / 7 Tage	
Coldness	-25 °C / 1 day	-25 °C / 1 day	-25 °C / 1 day
Ambient temperature	-40 °C to +70 °C	-40 °C to + 70 °C	-40 °C to +70 °C
Rapid change of temperature	-40 °C to +70 °C / 25 cycles t=30 min.		
Flowing mixed gas	+25 C / 73% RH / 4 days, H_2S / SO_2		
Optical Characteristics			
Insertion loss	Singlemode: max. 0.5 dB; Multimode: max. 0.4 dB	Singlemode: max. 0.5 dB; Multimode: max. 0.4 dB	Singlemode: max. 0.4 dB; Multimode: max. 0.4 dB; APC: max. 0.1 dB
Return loss	min. 40 dB	min. 40 dB	Singlemode: min. 50 dB; Multimode: min. 40 dB; APC: min. 85 dB
Design for POF	yes	no	no

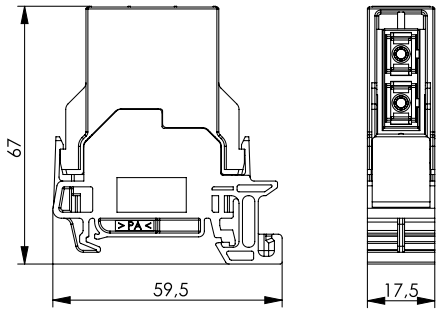
2.4.3 STX Mounting Rail Outlets FO





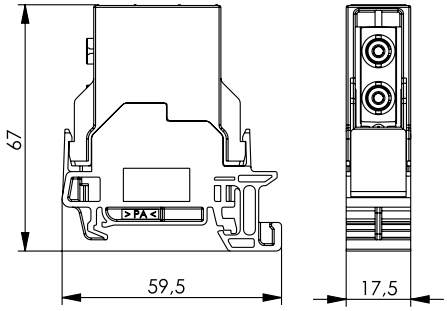
Part No.	Description	Type
100022791	STX mounting rail outlet incl. LC Duplex adaptor	Multimode
100022792	STX mounting rail outlet incl. LC Duplex adaptor	Singlemode





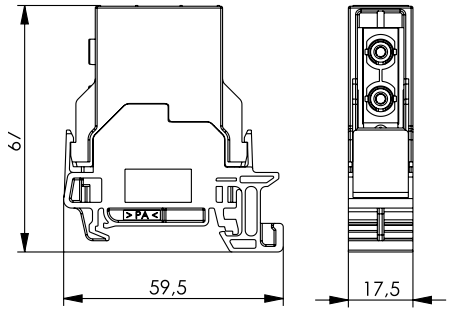
Part No.	Description	Type
100022789	STX mounting rail outlet incl. SC Duplex adaptor	Multimode
100022790	STX mounting rail outlet incl. SC Duplex adaptor	Singlemode





Part No.	Description	Type
100022795	STX mounting rail outlet incl. ST Duplex adaptor	Singlemode/Multimode; metal

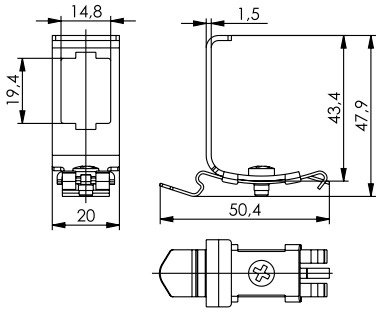




Part No.	Description	Type
100022794	STX mounting rail outlet incl. ST/SC Duplex adaptor	Singlemode/Multimode

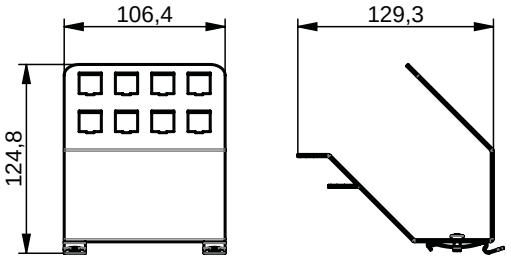
2.5 STX Mounting Rail Adaptor





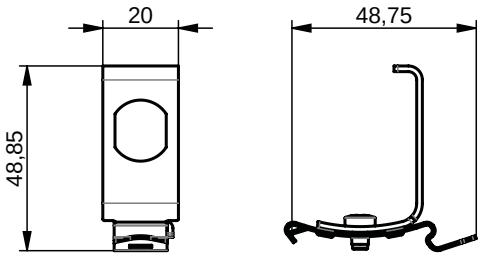
Part No.	Short name	Type	Remarks	Series
100022668	Mounting rail adaptor	metal, unequiped	for mounting rail H35	AMJ-S; AMJ-SL ; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K





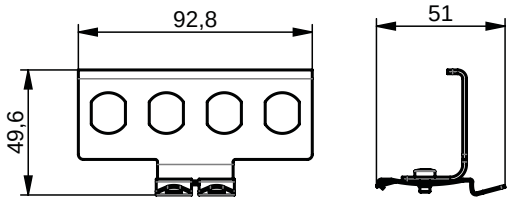
Part No.	Short name	Type	Remarks	Series
100021499	Mounting rail adaptor	metal, without Module/Coupler	for mounting rail H35	AMJ-S; AMJ-SL ; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K





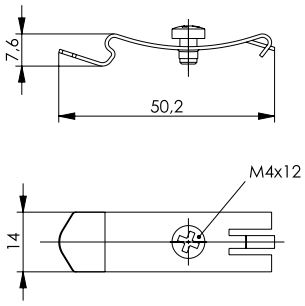
Part No.	Short name	Type	Remarks	Series
100121816	M12 rail adaptor	Metal, unequipped, 1-gang	for mounting rail H35	M12





Part No.	Short name	Type	Remarks	Series
100121817	Mounting rail adaptor M12	metal, unpopulated, 4 gang	for mounting rail TH35	M12

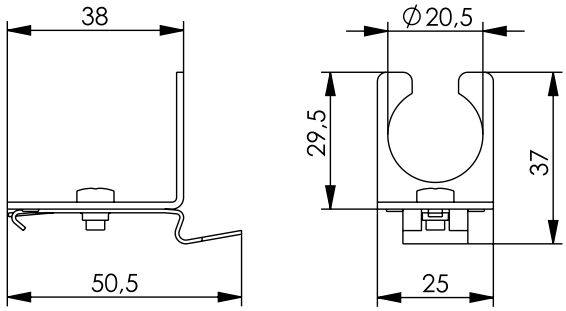




Part No.	Short name	Type	Remarks
100022650	Mounting set for mounting rail adaptor	metal, unpopulated, 4 gang	for mounting rail TH35

STX Mounting Rail Distributor for FO Cable-Splitter 2.6

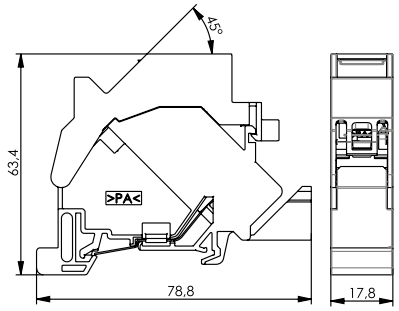




Part No.	Beschreibung	Type	Remarks
100022653	STX mounting rail distributor for cable-splitter ODS-Mini	Stainless steel	for TH35, mounting in 90° steps

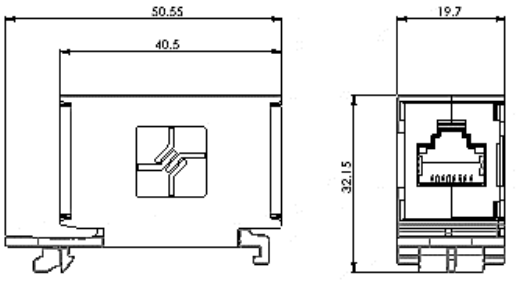
2.7 Mounting Rail Outlet TS45





Part No.	Short name	Type	Remarks	Colour
100021379	Mounting Rail Outlet TS45	empty	for mounting rail TH35	light grey RAL 7035
100023004	Mounting Rail Outlet TS45 AMJ-S	incl. AMJ-S Module Cat.6_A T568B	for mounting rail TH35	light grey RAL 7035
100023003	Mounting Rail Outlet TS45 AMJ-S	incl. AMJ-S Module Cat.6_A T568A	for mounting rail TH35	light grey RAL 7035
100025691	Mounting Rail Outlet TS45 AMJ-SL	incl. AMJ-SL Module Cat.6_A T568A	for mounting rail TH35	light grey RAL 7035
100025692	Mounting Rail Outlet TS45 AMJ-SL	incl. AMJ-SL Module Cat.6_A T568B	for mounting rail TH35	light grey RAL 7035

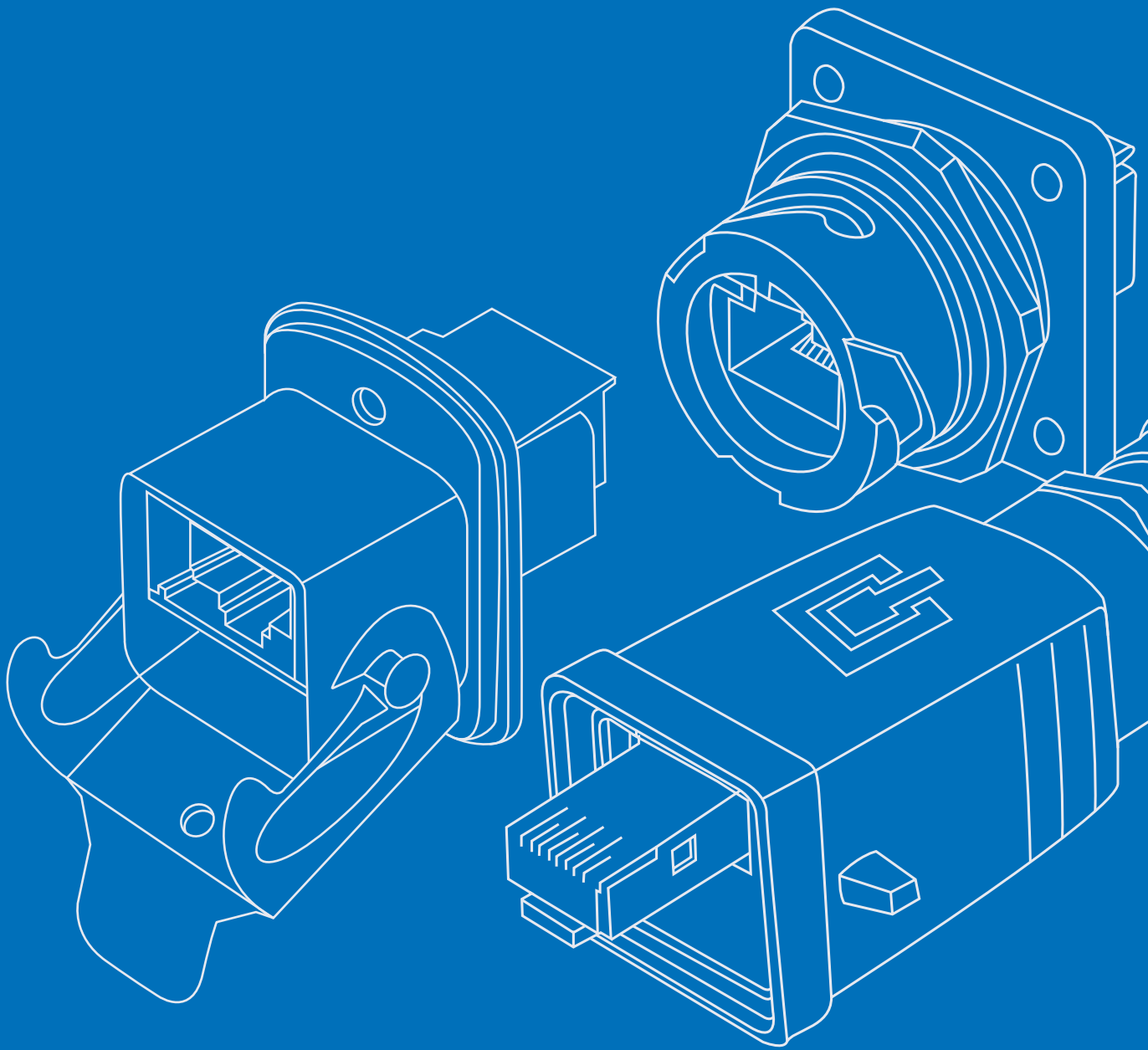




Part No.	Short name	Type	Remarks	Colour
100127806	Smart Meter Coupler	for mounting rail TH35 and meter cross	suitable for RJ45/11/12 plugs	light grey RAL 7035

3

COMPONENTS FOR FIELD CABLING - M12/RJ45/FO



COMPONENTS FOR FIELD CABLING
M12/RJ45/FO







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The tried-and-tested circular connectors are very popular in industrial networks, as they offer several advantages over the RJ45: The X-coded category 6_A version has four separate chambers - one for each wire pair - so that the pair shield is continued in the connector; the wire pairs are also fully shielded from each other in the connector. M12x1 connectors are used uniformly for the three important user protocols PNO, CLPA and ODVA. The D-coded M12x1 is a four-pole category 5 connector that can transmit data rates up to and including 100 megabits per second. The X-coded version accepts four wire pairs, fulfills the requirements of category 6_A and is therefore suitable for Ethernet with data rates up to and including 10 gigabits per second. And of course also for Power over Ethernet. There are also differently coded versions, but these are not compatible with the D- and X-coded connectors.

Type	Norm	Status	Beschreibung
RJ45 AWG24	IEC 60603-7-51	Norm	8-pole modular Connector Cat.6_A
RJ45 AWG22	IEC 60603-7-5	Norm	8-pole modular Connector Cat.6
SC	IEC 61754-4	Norm	SC Push-Pull
LC	IEC 61754-20	Norm	SFF connector, latch
ST	IEC 61754-2	Norm	bayonet locking
M12-D	IEC 61076-2-101	Norm	M12, 4 pole with D-coding IP67
M12-X	IEC 61076-2-109	Norm	M12, 8 pole with X-coding IP67
Var. 1	IEC 61076-3-106	Norm	Circular bayonet locking
Var. 4	IEC 61076-3-106	Norm	Push-pull IP67
Var. 5	IEC 61076-3-106	Norm	Locking lever coupling IP67
Var. 6	IEC 61076-3-106	Norm	Push-pull locking IP67
Var. 14	IEC 61076-3-117	Norm	Push-pull IP67

Type	ISO/IEC 24702	IEC 61918	EN 50173-3
	Generic Cabling Systems - Industrial Premises	Industrial Communication Networks	Generic Cabling Systems - Industrial Premises
RJ45 AWG24 Cat.6_A	●	●	●
RJ45 AWG22 Cat.6 Class E_A	●	●	●
SC	●	●	●*
LC	●	●	●
ST	●	●	●*
M12-D	●	●	●
M12-X	●	●	●
Var. 1	●*	●	●*
Var. 4	●	●	●
Var. 5			
Var. 6	●	●	●*
Var. 14	●*	●	●*

Type	Ethernet TCP/IP	ODVA	PNO AIDA	CLPA
	Ethernet TCP/IP	Ethernet IP	PROFINET	CC-Link IE
RJ45 AWG24 Cat.6_A	●			●
RJ45 AWG22 Cat.6 Class E_A	●			●
SC	●		●	
LC	●	●	●	●
ST	●			
M12-D		●	●	
M12-X		●	●	●
Var. 1		●		
Var. 4				
Var. 5			●	
Var. 6				
Var. 14			●	

	Plug Housings V1 Metal	Plug Housings V1 Plastic	Plug Housings V4	Plug Housings V5	Plug Housings V14
Standards					
Connectors	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-117
Degrees of protection provided by enclosures (IP code)	IEC 60529	IEC 60529	IEC 60529	IEC 60529	IEC 60529
Mechanical Characteristics					
Housing	zinc diecast, nickel-plated	PA UL94 V0 black halogenfree	PA UL94 V0 black halogenfree	aluminium diecast, powder coated	zinc diecast, nickel plated
Cable diameter	5.0 - 10 mm	5.0 - 10 mm	5.0 - 10 mm	5.0 - 10 mm	5.0 - 10 mm
Environmental Requirements					
Protection against particulate ingress	IP6X	IP6X	IP6X	IP6X	IP6X
Protection against water / immersion	IPX7	IPX7	IPX7	IPX7	IPX7
Ambient temperature	-40 °C to +70 °C				
Rapid change of temperature	-40 °C to + 70 °C / 25 cycles t=30 min.				
Climatic damp heat	+25 °C / +65 °C / 93% RH // -10 °C / 21 cycles				
Neutral salt spray test	+35 °C / 4 days; 5% NaCl				

	Bulkhead V1 Metal	Bulkhead V1 Plastic	Bulkhead V4	Bulkhead V5	Bulkhead V14
Standards					
Connectors	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-106	IEC 61076-3-117
Degrees of protection provided by enclosures (IP code)	IEC 60529	IEC 60529	IEC 60529	IEC 60529	IEC 60529
Mechanical Characteristics					
Clamp	-	-	-	Edelstahl	-
Housing	zinc diecast, nickel-plated	PA UL94 V0 black halogenfree	PA UL94 V0 black halogenfree	aluminium diecast, powder coated	zinc diecast, nickel plated
Environmental Requirements					
Protection against particulate ingress	IP6X	IP6X	IP6X	IP6X	IP6X
Protection against water / immersion	IPX7	IPX7	IPX7	IPX7	IPX7
Ambient temperature	-40 °C to +70 °C				
Rapid change of temperature	-40 °C to + 70 °C / 25 cycles t=30 min.				
Climatic damp heat	+25 °C / +65 °C / 93% RH // -10 °C / 21 cycles				
Neutral salt spray test	+35 °C / 4 days; 5% NaCl				

Technical data apply to Telegärtner products and the appropriate combinations of IP67 plugs and bulkheads.

Industrial requirements for secure and continuous transfer of constantly increasing data volumes demand cabling solutions which are able to satisfy the needs of today and the future. The cabling of industrial communication networks in accordance with IEC 61918 also provides 4- and 8-pole versions of the M12x1 round connector as a plug interface. The 4-pole M12x1 D-coded round connectors are standardised in accordance with IEC 61076-2-101 and enable data rates up to 100 Mbit/s. They can be used for installations in the PROFINET environment. For even higher data rates up to 10 Gbit/s the round connector is standardised as an 8-pole version M12x1 with X-coding in accordance with 61076-2-109. This version also enables a power supply to connected terminating equipment in accordance with IEEE 802.3at. This allows applications such as security or video surveillance (CCTV), passenger information systems (PIS), production systems or production monitoring with high-resolution cameras to be implemented. Telegärtner offers M12x1 D-coded and X-coded connectors, bulkhead sockets for PCBs and pre-assembled connecting cables for transfer of 1/100 Mbit/s or 1/10 Gbit/s with UL listing for installation of industrial communication networks. With fieldassembly version of the new M12x1 X-coded Cat.6_A connector, networks can be set up flexible on site without special tools. The connector offers 360° shield contacting and is suitable both for connection to solid conductors and stranded cables. Both S/FTP and SF/UTP types with a wire diameter of 0.9–1.6 mm and an external diameter of 5.5–9 mm can be used for the connection. As printed circuit board receptacle types with housings for front or rear panel assembly, they are also available without housing and with a quad screen connection to the printed circuit board. The interface therefore offers component manufacturers various options for integration of their products. Telegärtner also offers pre-assembled connecting cables for the connection between machine or other terminating equipment as well as connection of the machine or terminating device in the switch cabinet. They have SF/UTP 2x2xAWG 22/7 PUR structure in accordance with the PROFINET specification for the M12x1 D-coded. The connecting cables with M12x1 X-coded have a S/FTP 4x2xAWG 26/7 PUR structure and increased temperature range of -40 °C to +85 °C.

Nomenclature M12x1

Example: CO-8X-180-8X-180-C6A000

1 2 3 4 5 6

1= Type		2 = Interface side 1		3 = Design side 1	
CO	Coupler	8X	M12x1 X-kodiert	180	straight, 180°
		4D	M12x1 D-kodiert		

4 = Interface side 2		5 = Design side 2		6 = Category	
8X	M12x1 X-coded	180	straight, 180°	C5	Cat.5
4D	M12x1 D-coded	090	angled, 90°	C6A	Cat.6_A
45	RJ45				

Example: BS-8X-180-1-4-THR-100BM-000

1 2 3 4 5 6 7 8

1 = Type		2 = Coding		3 = Design		4 = Setup	
BS	Bulkhead socket	8X	M12x1 X-coded	180	straight, 180°	0	without housing
CP	Cable plug	4D	M12x1 D-coded	090	angled, 90°	1	1 pc. design
						2	2 pc. design
						3	plug set

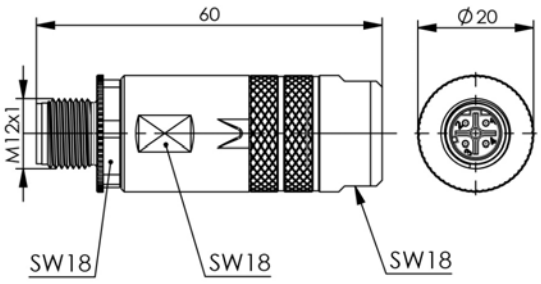
5 = Screen		6 = Connection		7 = Gap to PCB	8 = Mounting type	
1	connection single	THR	solder connection	gap to PCB /	FM	front mounting
3	connection triple	IDC	IDC	plug length in 1/10 mm	BM	back mounting
4	connection quad	SMD	SMD		FA	field assembly
5	360° shielding	SCT	screw termination			

3.1 M12x1 D-coded

3.1.1 M12x1 D-coded Cable Plug

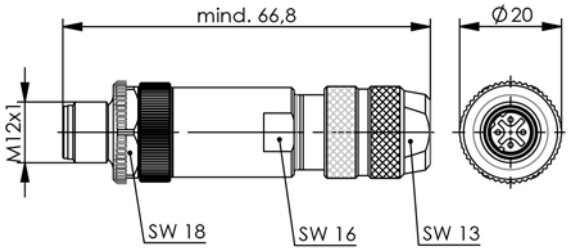
Standards	
Connectors	IEC 61076-2-101
Mechanical Characteristics	
Insertion force	≤ 30 N
Durability (mating cycles)	≥ 100
Material: housing	zinc diecast nickel plated / brass nickel plated
Material: contact body	PA
Material: shield	German silver
Material: pressure screw	brass nickel plated
Material: contacts	brass
Material: contact finish	Au over Ni
Cu-Conductor diameter: solid	0.51 - 1.0 mm (AWG24-18/1)
Cable diameter	5.0 - 8.0 mm
Environmental Requirements	
Shock	50 g
Protection against particulate ingress	IP6X
Protection against water / immersion	IPX7
Ambient temperature	-40 °C to +85 °C
Electrical Characteristics	
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Voltage proof: contact-contact	≥ 1000 V, DC
Voltage proof: contact-shield	≥ 1000 V, DC
Transmission Characteristics	
Fast Ethernet acc. to IEEE 802.3	fulfilled
Category 5	ISO/IEC 11801, DIN EN 50173-1





Part No.	Description	Short name	Type
100007501	STX M12x1 CP D-kod. Cat.5	CP4D180-3-5IDC600FA000	4-pole, D-coded, straigth, plug set, 360° shielding, IDC, field assembly

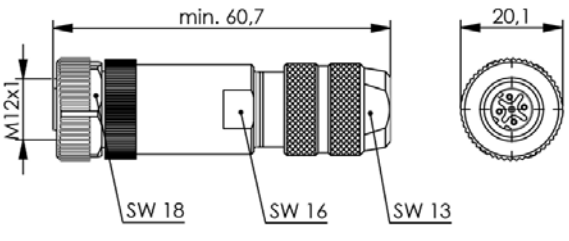




Part No.	Description	Short name	Type
100007500	STX M12x1 CP D-kod. Cat.5	CP4D180-3-5SCT700FA000	4-pole, D-coded, straigth, plug set, 360° shielding, screw termination, field assembly

M12x1 D-coded Cable Socket 3.1.2





Part No.	Description	Short name	Type
100007542	STX M12x1 KD D-cod. Cat.5	CS4D180-3-5SCT700FA000	4 pole, D-coded, straight, field assembly

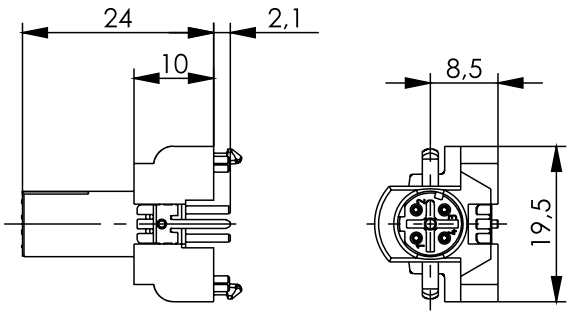
M12x1 D-coded Bulkhead Socket 3.1.3

Standards	
Connectors	IEC 61076-2-101
Mechanical Characteristics	
Insertion force	≤ 30 N
Durability (mating cycles)	≥ 100
Material: housing	zinc diecast nickel plated / brass nickel plated
Material: contact body	PA
Material: contacts	CuSn
Material: contact finish	Au over Ni
Environmental Requirements	
Shock	50 g
Protection against particulate ingress	IP6X
Protection against water / immersion	IPX7
Ambient temperature	-40 °C to +85 °C
Electrical Characteristics	
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Voltage proof: contact-contact	≥ 500 V, DC
Voltage proof: contact-shield	≥ 500 V, DC
Transmission Characteristics	
Fast Ethernet acc. to IEEE 802.3	fulfilled
Category 5	ISO/IEC 11801, DIN EN 50173-1

3.1.3

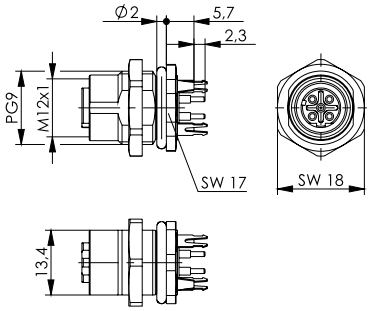
3.1.3 M12x1 D-coded Bulkhead Socket





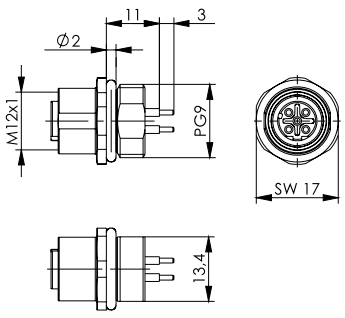
Part No.	Description	Short name	Type
100007553	STX M12x1 BS D-cod. Cat.5	BS4D180-0-1THR000BM000	4 pole, D-coded, straight, without housing, screen connection single, solder connection THR, back mounting





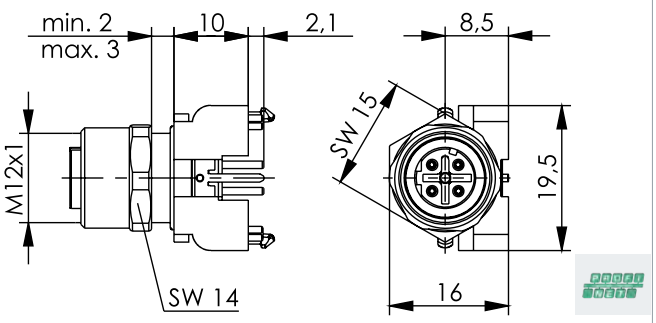
Part No.	Description	Short name	Type
100007432	STX M12x1 BS D-cod. Cat.5	BS4D180-1-4THR057BM000	4 pole, D-coded, straight, 1pc. design, screen connection quad, solder connection THR, gap to PCB 5.7 mm, back mounting





Part No.	Description	Short name	Type
100007433	STX M12x1 BS D-cod. Cat.5	BS4D180-1-5THR110FM000	4 pole, D-coded, straight, 1pc. design, screen connection 360°, solder connection THR, gap to PCB 11 mm, front mounting





Part No.	Description	Short name	Type
100007549	STX M12x1 BS D-cod. Cat.5	BS4D180-2-1THR100BM000	4 pole, D-coded, straight, 1pc. design, screen connection quad, solder connection THR, gap to PCB 10 mm, back mounting

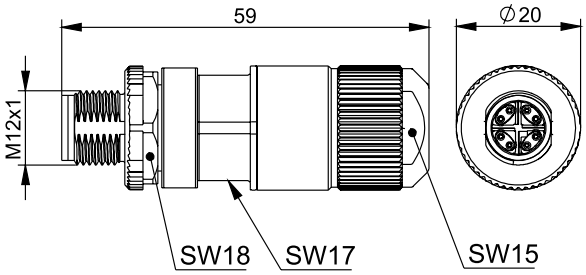
M12x1 X-coded 3.2

M12x1 X-coded Cable Plug 3.2.1

Standards	
Connectors	IEC 61076-2-109
Mechanical Characteristics	
Insertion force	≤ 30 N
Durability (mating cycles)	≥ 1000
Material: housing	zinc diecast nickel plated / brass nickel plated
Material: wire pair presorting	PA UL94 V0
Material: shield	German silver
Material: pressure screw	brass nickel plated
Material: contacts	brass
Material: contact finish	Au over Ni
Insulation diameter	0.9 - 1.6 mm
Cu-Conductor diameter: stranded	0.46 - 0.76 mm (AWG27 - 22/7)
Cu-Conductor diameter: solid	0.51 - 0.64 mm (AWG24 - 22/1)
Cable diameter	5.5 - 9.0 mm
Environmental Requirements	
Shock	50 g
Protection against particulate ingress	IP6X
Protection against water / immersion	IPX7
Ambient temperature	-40 °C to +85 °C
Electrical Characteristics	
Contact resistance	≤ 10 mΩ
Insulation resistance	≥ 100 MΩ
Voltage proof: contact-contact	≥ 500 V, DC
Voltage proof: contact-shield	≥ 500 V, DC
PoE+ acc to IEEE 802.3at	Adequate for Power over Ethernet+
Transmission Characteristics	
10 Gigabit Ethernet acc. to IEEE 802.3an	Adequate for 10 Gigabit Ethernet
Category 6_A	ISO/IEC 11801; DIN EN 50173-1
Class E_A	ISO/IEC 11801; DIN EN 50173-1
Category 6A	ANSI/TIA/EIA-568-C.2

3.2.1 M12x1 X-coded Cable Plug

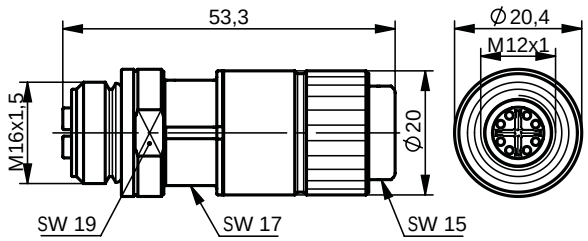




Part No.	Description	Short name	Type
100007499	STX M12x1 CP X-cod. Cat.6$_A$	CP8X180-3-5IDC590FA000	8 pole, X-coded, straight, plug set, 360° shielding, IDC, plug length: 59 mm, field assembly

3.2.2 M12x1 X-coded Cable Socket



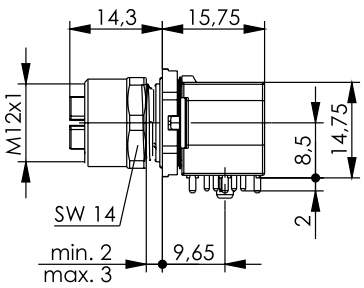


Part No.	Description	Short name	Type
100007546	STX M12x1 CS X-coded Cat.6$_A$	CS8X180-3-5IDC533FA000	8 pole, X-coded, straight, plug set, 360° shielding, IDC, plug length: 53,3 mm, field assembly

M12x1 X-coded Bulkhead Socket 3.2.3

Standards	
Connectors	IEC 61076-2-109
Mechanical Characteristics	
Insertion force	≤ 30 N
Durability (mating cycles)	≥ 100
Material: housing	zinc diecast nickel plated / brass nickel plated
Material: contact body	PA
Material: contacts	CuSn
Material: contact finish	Au
Material: gaskets	FKM; NBR
Environmental Requirements	
Shock	50 g
Protection against particulate ingress	IP6X
Protection against water / immersion	IPX7
Ambient temperature	-40 °C to +85 °C
Electrical Characteristics	
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Voltage proof: contact-contact	≥ 500 V, DC
Voltage proof: contact-shield	≥ 500 V, DC
PoE+ acc to IEEE 802.3at	Adequate for Power over Ethernet+
Transmission Characteristics	
10 Gigabit Ethernet acc. to IEEE 802.3an	Adequate for 10 Gigabit Ethernet
Category 6_A	ISO/IEC 11801; DIN EN 50173-1
Class E_A	ISO/IEC 11801; DIN EN 50173-1
Category 6A	ANSI/TIA/EIA-568-C.2



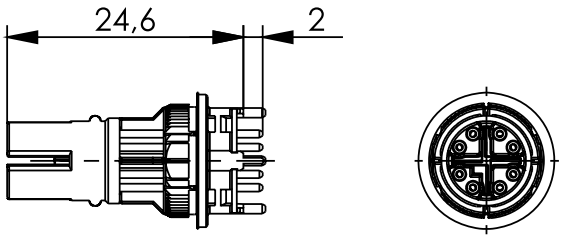


➨ Part No.	Description	Short name	Type	Mount. dim.
100007556	STX M12x1 EBB X-cod. Cat.6_A 90°	BS8X090-0-4THR085BM000	8 pole, X-coded, angled, without housing, screen connection quad, solder connection THR, 8,5 mm gap to PCB, back mounting	Z138
100007554	STX M12x1 EBB X-cod. Cat.6_A 90°	BS8X090-1-4THR085BM000	8 pole, X coded, angled, 1 pc. design, screen connection quad, solder connection THR, 8,5 mm gap to PCB, back mounting	Z138; Z158
100007555	STX M12x1 EBB X-cod. Cat.6_A 90°	BS8X090-2-4THR085BM000	8 pole, X coded, angled, 2 pc. design, screen connection quad, solder connection THR, 8,5 mm gap to PCB, back mounting	Z138

3.2.3

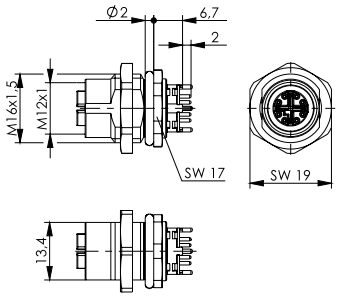
3.2.3 M12x1 X-coded Bulkhead Socket





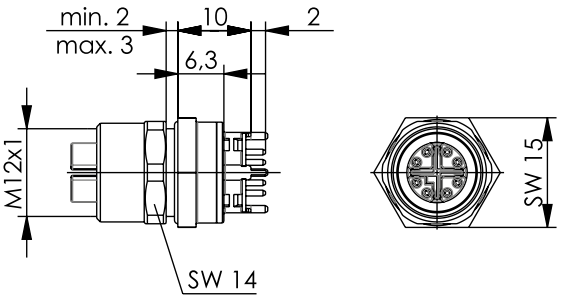
Part No.	Description	Short name	Type
100007550	STX M12x1 BS X-cod. Cat.6$_A$	BS8X180-0-4THR000BM000	8 pole, X-coded, straight, without housing, screen connection quad, solder connection THR, , gap to PCB customized, back mounting





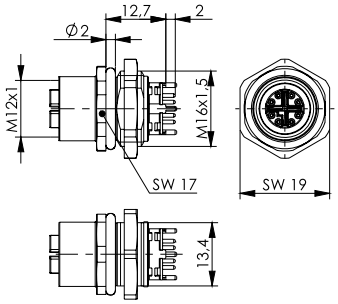
Part No.	Description	Short name	Type	Mount. dim.
100007428	STX M12x1 BS X-cod. Cat.6$_A$	BS8X180-1-4THR067BM000	8 pole, X-coded, straight, 1pc. design, screen connection quad, solder connection THR, gap to PCB 6,7 mm, back mounting	Z139, Z140





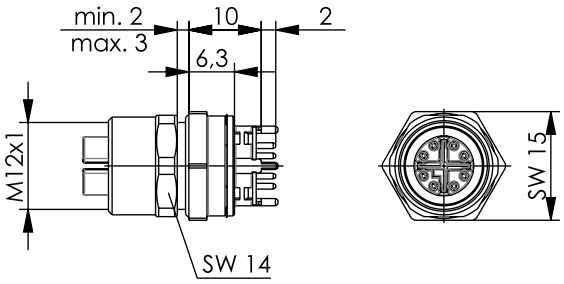
Part No.	Description	Short name	Type	Mount. dim.
100007427	STX M12x1 BS X-cod. Cat.6$_A$	BS8X180-1-4THR100BM000	8 pole, X-coded, straight, 1pc. design, screen connection quad, solder connection THR, gap to PCB 10 mm, back mounting	Z138, Z139





Part No.	Description	Short name	Type
100007429	STX M12x1 BS X-cod. Cat.6$_A$	BS8X180-1-4THR127FM000	8 pole, X-coded, straight, 1pc. design, screen connection quad, solder connection THR, gap to PCB 12,7 mm, front mounting





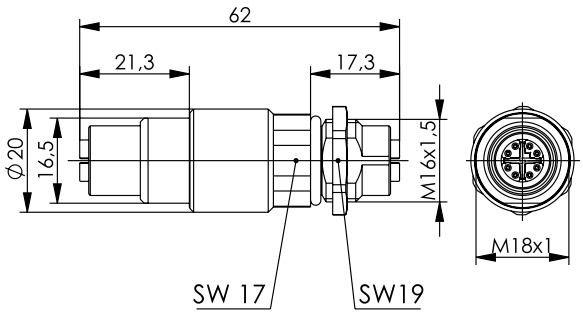
Part No.	Description	Short name	Type	Mount. dim.
100007548	STX M12x1 BS X-cod. Cat.6$_A$	BS8X180-2-4THR100BM000	8 pole, X-coded, straight, 2pc. design, screen connection quad, solder connection THR, gap to PCB 10 mm, back mounting	Z138, Z139

M12x1 X-coded Coupler 3.2.4

	M12 X-coded Bulkhead Socket	RJ45 Jack
Standards		
Connectors	IEC 61076-2-109	IEC 60603-7-51
Mechanical Characteristics		
Insertion force	≤ 30 N	≤ 30 N
Durability (mating cycles)	≥ 100	≥ 100
Material: housing	zinc diecast nickel plated / brass nickel plated	-
Material: contact body	PA	-
Material: contacts	CuSn	-
Material: contact finish	Au	Au
Material: gaskets	FKM; NBR	-
Environmental Requirements		
Shock	50 g	-
Protection against particulate ingress	IP6X	IP2X
Protection against water / immersion	IPX7	IPX0
Ambient temperature	-40 °C to +85 °C	-40 °C to +70 °C

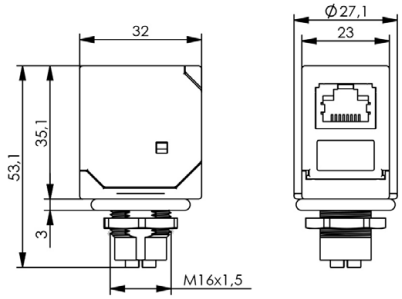
	M12 X-coded Bulkhead Socket	RJ45 Jack
Electrical Characteristics		
Contact resistance	≤ 5 mΩ	≤ 20 mΩ
Insulation resistance	≥ 100 MΩ	≥ 500 MΩ
Voltage proof: contact-contact	≥ 500 V, DC	≥ 1000 V, DC
Voltage proof: contact-shield	≥ 500 V, DC	≥ 1500 V, DC
PoE+ acc to IEEE 802.3at	Adequate for Power over Ethernet+	Adequate for Power over Ethernet+
Transmission Characteristics		
10 Gigabit Ethernet acc. to IEEE 802.3an	Adequate for 10 Gigabit Ethernet	Adequate for 10 Gigabit Ethernet
Category 6_A	ISO/IEC 11801; DIN EN 50173-1	ISO/IEC 11801; DIN EN 50173-1
Class E_A	ISO/IEC 11801; DIN EN 50173-1	ISO/IEC 11801; DIN EN 50173-1
Category 6A	ANSI/TIA/EIA-568-C.2	ANSI/TIA/EIA-568-C.2





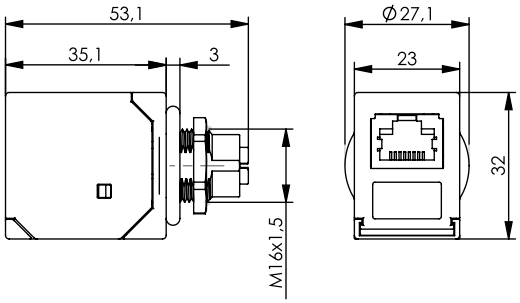
Part No.	Description	Short name	Type	Mount. dim.
100007538	STX M12x1-M12x1 CO X-cod. Cat.6_A	CO-8X-180-8X-180-C6A000	mating face 1: 8 pole, X-coded, straight; mating face 2: 8 pole, X-coded, straight; Cat.6_A	Z161





Part No.	Description	Short name	Type
100007557	STX M12x1-RJ45 CO X-cod. Cat.6_A	CO-8X-180-45-090-C6A000	mating face 1: 8 pole , X-coded, straight; mating face 2: RJ45, angled; Cat.6_A



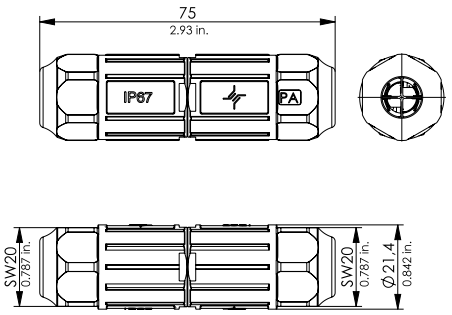


Part No.	Description	Short name	Type
100007539	STX M12x1-RJ45 CO X-cod. Cat.6_A	CO-8X-180-45-180-C6A000	mating face 1: 8 pole, X-coded, straight; mating face 2: RJ45, straight; Cat.6_A

VM-Pro 8-8 Class FA IP67 3.3

- Class FA (1000 MHz)
- real-time re-embedded
- suitable for 100 / 250 / 500 / 1000 MHz installation and patch cords
- electrical scoop-proof
- connection via IDC termination
- isolated construction
- connection of 4-pair shielded/unshielded installation and patch cords from AWG 27-22
- reconnectable up to 4 times
- EMC tested acc. to DIN EN 61000-6-1 and DIN EN 61000-6-2
- Temperature range: -40° C to 70° C
- reconnectable up to 4 times





Part No.	Description	Remarks	Colour
100007547	VM-Pro 8-8 Class F_A IP67	AWG27-22	black

3.4 Variants

VARIANT 1

		Plug Housings			
		 zinc diecast, without bend protection **100022896**	 PA V0 UL94 black, without bend protection **100022907**	 zinc diecast, with bend protection **100022898**	 PA V0 UL94 black, with bend protection **100022909**
Plug Inserts Copper	 RJ45 AWG27-24 Cat.6$_A$ **100007452**	100007455	100007459	100007456	100007460
	 RJ45 AWG26-22 Cat.6 **100007454**	100007457	100007461	100007458	100007462
Plug Inserts FO	 2SC Singlemode **100021197**	100007608	100007614	100007609	100007615
	 2SC Multimode **100021196**	100007606	100007612	100007607	100007613
	 2SC POF **100021199**	100007610	100007616	100007611	100007617
	 LC Duplex Singlemode **100021188**	100007566	100007570	100007567	100007571
	 LC Duplex Multimode **100021187**	100007564	100007568	100007565	100007569
			 Protection Cap Plug Housing V1 **100022769**		

Bulkhead Housings


zinc diecast
100022891


PA V0 UL94 black
100022892


AP-Outlet, plastic, incl. protection cap


Free Connection box, plastic, incl. protection cap


Surface Housing single gang
100022784


Surface Housing double gang
100022786



100007415	100007417				
100007414	100007416	100007446	100007448		
		100007447	100007449		
100007624	100007626				
100007623	100007625				
100007577	100007579				
100007576	100007578				

Bulkhead Inserts Copper


RJ45 coupler Cat.6
100007533


RJ45 jack A Cat.6_A
100007525


RJ45 jack B Cat.6_A
100007526


RJ45 jack P
100007527


USB-coupler 2.0 Typ A
100007529


USB-coupler 2.0 Typ A-B
100007534

Bulkhead Inserts FO


2 SC/SC-RJ adaptor Singlemode
100021201


2 SC/SC-RJ adaptor Multimode
100021200


LC Duplex adaptor Singlemode
100021190


LC Duplex adaptor Multimode
100021189


Protection Cap Bulkhead Housing V1
100022773

3.4 Variants

VARIANT 4

		Plug Housings	
		 PA V0 UL94 black, without bend protection spiral **100022908**	 PA V0 UL94 black, with bend protection spiral **100022910**
Plug Inserts Copper	 RJ45 AWG27-24 Cat.6$_A$ **100007452**	100007463	100007464
	 RJ45 AWG26-22 Cat.6 **100007454**	100007465	100007466
Plug Inserts FO	 2SC Singlemode **100021197**	100007602	100007603
	 2SC Multimode **100021196**	100007600	100007601
	 2SC POF **100021199**	100007604	100007605
	 LC Duplex Singlemode **100021188**	100007562	100007563
	 LC Duplex Multimode **100021187**	100007560	100007561


Protection Cap
Plug Housing V4
100022770

Bulkhead Housings



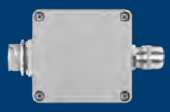
PA V0 UL94 black
100022893



AP-Outlet, plastic, incl. protection cap



Free Connection box, plastic, incl. protection cap



Surface Housing single gang
100022780



Surface Housing double gang
100022781

100007419				
100007418	100007442	100007444		
	100007443	100007445		
100007622				
100007621				
100007575				
100007574				



Protection Cap Bulkhead Housing V4
100022774

Bulkhead Inserts Copper



RJ45 coupler Cat.6
100007533



RJ45 jack A Cat.6_A
100007525



RJ45 jack B Cat.6_A
100007526



RJ45 jack P
100007527



USB-coupler 2.0 Typ A
100007529



USB-coupler 2.0 Typ A-B
100007534

Bulkhead Inserts FO



2 SC/SC-RJ adaptor Singlemode
100021201



2 SC/SC-RJ adaptor Multimode
100021200



LC Duplex adaptor Singlemode
100021190



LC Duplex adaptor Multimode
100021189

3.4 Variants

VARIANT 5

	Plug Housings
	 Die-cast aluminum, without bend protection spiral **100022897**
Plug Inserts Copper	
 RJ45 AWG27-24 Cat.6$_A$ **100007452**	100007467
 RJ45 AWG26-22 Cat.6 **100007454**	100007468
Plug Inserts FO	
 2SC Singlemode **100021197**	
 2SC Multimode **100021196**	
 2SC POF **100021199**	
 LC Duplex Singlemode **100021188**	
 LC Duplex Multimode **100021187**	
	 Protection Cap Plug Housing V5 **100022771**

Bulkhead Housings



Die-cast aluminum
100022894



Surface Housing single gang
100022782



Surface Housing double gang
100022783

100007421		
100007420		

Bulkhead Inserts Copper



RJ45 coupler Cat.6
100007533



RJ45 jack A Cat.6_A
100007525



RJ45 jack B Cat.6_A
100007526



RJ45 jack P
100007527



USB-coupler 2.0 Typ A
100007529



USB-coupler 2.0 Typ A-B
100007534

Bulkhead Inserts FO



2 SC/SC-RJ adaptor
Singlemode
100021201



2 SC/SC-RJ adaptor
Multimode
100021200



LC Duplex adaptor
Singlemode
100021190



LC Duplex adaptor
Multimode
100021189



Protection Cap
Bulkhead Housing V5
100022775

3.4 Variants

VARIANT 14

Plug Inserts Copper	Plug Housings	Bulkhead Housings: Norm-Bulkhead Set, metal, rectangular mounting cut-out	Bulkhead Housings: Central locking-Bulkhead Set, metal, round mounting cut-out	Bulkhead Inserts Copper
 RJ45 AWG27-24 Cat.6$_A$ **100007452**	100007469	100007422	100007424	 RJ45 coupler Cat.6 **100007533**
 RJ45 AWG26-22 Cat.6 **100007454**	100007470	100007423	100007425	 RJ45 jack A Cat.6$_A$ **100007525**
				 RJ45 jack B Cat.6$_A$ **100007526**
				 RJ45 jack P **100007527**
				 USB-coupler 2.0 Typ A **100007529**
				 USB-coupler 2.0 Typ A-B **100007534**

Plug Inserts FO	Plug Housings	Bulkhead Housings: Norm-Bulkhead Set, metal, rectangular mounting cut-out	Bulkhead Housings: Central locking-Bulkhead Set, metal, round mounting cut-out	Bulkhead Inserts FO
 2SC Singlemode **100021197**	100007619			
 2SC Multimode **100021196**	100007618			
 2SC POF **100021199**	100007620	100007628	100007630	 2 SC/SC-RJ adaptor Singlemode **100021201**
 LC Duplex Singlemode **100021188**	100007573	100007627	100007629	 2 SC/SC-RJ adaptor Multimode **100021200**
		100007581		 LC Duplex adaptor Singlemode **100021190**
 LC Duplex Multimode **100021187**	100007572	100007580	100007582	 LC Duplex adaptor Multimode **100021189**
	 Protection Cap Plug Housing V14 **100022772**		 Protection Cap Bulkhead Housing V14 **100022776**	

Plug Set



RJ45-Steckerset **100023013**
mit MP8(8) FS Cat.6_A **100023019**

VARIANT 6

Bulkhead Housings				
 Bulkhead with Mounting kit **100023156**	 Bulkhead without Mounting kit **100023157**	 AP Outlet	 free coupler Outlet	
100022953				 AMJ-Coupler K, Cat.5
100022954				 AMJ-Coupler K Cat.6_A f-f
100022952				 AMJ-Module K, Cat.6_A
100022951				USB-Keystone Type A, f-f
		100022949	100022950	Module, Cat.6_A

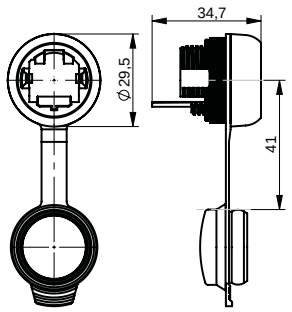
Bulkhead Set

3.5 STX Communication Interface IP65

For the installation of a network connection in control cabinets, operating terminals or distribution boxes, Telegärtner offers an interface with protection class IP65 for harsh environmental conditions. RJ45 inserts for 10Gbit Ethernet, USB or fiber optic inserts (GOF as well as POF fibers) are available as transmission media. Benefit from maximum flexibility and simply select the required insert for your application. Thanks to the modular principle, a wide range is available that can be used with all connectors
connectors with STEADYTEC® technology.

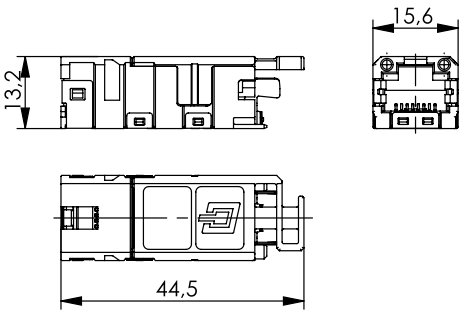
- for material thickness 1-5 mm
- captive protective cap attached to the searugged
- PA-housing UL94V0
- available with RJ45 Cat.6_A, Cat.6 Class E_A, USB or FO insert
- round cutout according to mounting dimension Z122 for central screw mounting





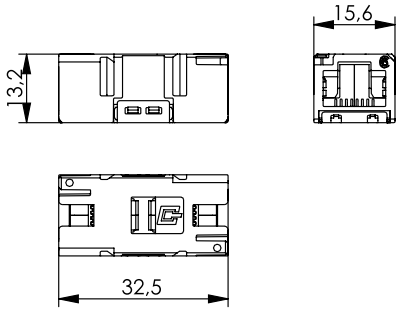
Part No.	Description	Housing	Mount. dim.
100022906	STX communication interface IP65	plastic	Z122





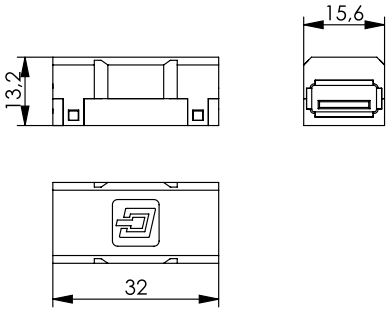
Part No.	Description	Colour coding
100007525	STX RJ45 jack A Cat.6_A	T568A
100007526	STX RJ45 jack B Cat.6_A	T568B
100007527	STX RJ45 jack P Cat.6_A	PROFINET





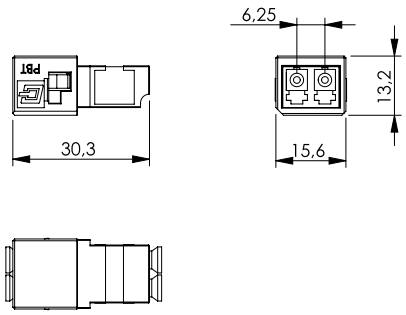
Part No.	Description	Remarks
100007533	STX RJ45 coupler Cat.6 Class E_A	suitable for Class E_A Channel





Part No.	Description	UL-listed
100007529	STX USB coupler 2.0 type A, f-f	E244889
100007534	STX USB coupler 2.0 type A-B, f-f	E244889
100007535	STX USB coupler 3.0 type A, f-f	E244889





Part No.	Description	Stecker-Bauform	Fiber type
100021190	STX FO adaptor	LC Duplex	Singlemode
100021189	STX FO adaptor	LC Duplex	Multimode

3.6 FO Wall Boxes and Splice Boxes

Fiber optic wall boxes and splice boxes by Telegärtner offer a maximum amount of ports using a minimum of space. Based on Telegärtner's decades of experience, they offer easy and reliable patching even in high density applications.

	FO Wall Distributor	FO Wall Splice Box	FO Combi Wall Box	FO Modular Wall Distributor
Mechanical Characteristics				
Part-No.	100022176	100022177	100022179	100022291
Housing	Sheet steel 1 mm powder coated			
Colour	RAL 7035			
Distribution plates	Aluminium sheet			
Cable glands	4x M25	4x M25	no	4x M25
Protection class acc. to IEC 60529	IP30	IP20	IP20	IP30
Dimensions (WxHxD)	440 x 440 x 95 mm	440 x 440 x 95 mm	440 x 440 x 85 mm	390 x 260 x 100 mm
Panel piercings	Empty housing: can be equipped with ST, SC, SC-D, LC-D, E2000			
Number of splice cassettes	Max. 8x	Max. 16x	Max. 24x cassettes or 4x cassettes and 2x panels	Max. 5x
Lockable	Yes	Yes	Yes	Yes

	FO Mini Wall Distributor	FO Compact Splice Box	ACD	Wall Distributor ODB 54
Mechanical Characteristics				
Part-No.	100022178	100022181	100033451 / 100033713	100022236
Housing	Sheet steel 1 mm powder-laminated			Polycarbonate
Colour	RAL 7035		RAL 9001	RAL 7035
Distribution plates	Aluminium sheet		-	Aluminium sheet
Cable glands	No	No	1x M25	2x M20
Protection class acc. to IEC 60529	IP30	IP30	IP20	IP54
Dimensions (WxHxD)	320 x 280 x 50 mm	265 x 150 x 55 mm	225 x 260 x 100 mm	250 x 200 x 64 mm
Panel piercings	Empty housing: can be equipped with ST, SC, SC-D, LC-D, E2000		With LC-D and E2000, more variants on request	For ST-D, SC-D, LC-D,LC-Quad, E2000
Number of splice cassettes	Max. 8x cassettes or 4x cassettes and 1x panel	Max. 4x cassettes or 1x cassette and 1x panel	Max. 3x	-
Lockable	Yes	Yes	Yes	Yes

	RDB	FO Splice Box IP66 S/S-V	FO Splice Box IP66 M/M-V	FO Distributor MPD24
Mechanical Characteristics				
Part-No.	100022322	100022194 / 100022258	100022188 / 100022259	100021508
Housing	Polycarbonate	Polystyrene		Sheet steel
Colour	RAL 7035			RAL 9001
Panels	Aluminium sheet			Sheet steel
Cable glands	2x M25, 1x M20	M20 , M25	M20 , M25	No
Protection acc. to IEC 60529	IP66	IP66	IP66	IP20
Dimensions (WxHxD)	400 x 300 x 153 mm	254 x 180 x 90 mm	360 x 254 x 111 mm	446 x 190 x 51 mm
Panel piercings	With 6xLC-D, more variants on request	Empty housing: can be equipped with ST, SC, SC-D, LC-D, LC-Q, E2000		For ST, SC-D, LC-D, LC-Q, E2000
Number of splice cassettes	1x, built in (24 splices)	Max. 5x cassettes or 1x cassette and 1x panel	Max. 8x cassettes or 3x cassettes and 1x panel	-
Lockable	Yes	No	No	No

All-In-One Compact Distributor 3.6.1

- Up to 2 incoming fiber optic cables
- Up to 3 splice cassettes
- Lockable door
- Panels for different types of FO adaptors
- Moveable, internal mounting level for active components



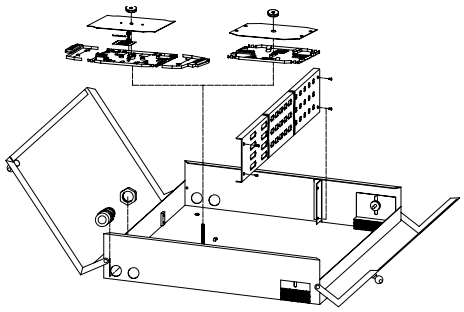
Customized variants via TICNET
- Fiber classes not listed
- Mixed assembly
- with/without pigtails

Part No.	Description	Remarks	Adaptors	Dimensions
100033451	FO Wall Distributor	Housing with lockable door and one internal "assembling level", 3x cable entry holes for 2x M25 glands + 1x variable feedthrough, for storage of 3x splice cassettes maximum, patch level for max. 6x LC-D	2x LC-D	225 x 260 x 100 mm
100033713	FO Wall Distributor	Housing with lockable door and one internal “assembling level”, 3x cable entry holes for 2x M25 glands + 1x variable feedthrough, for storage of 3x splice cassettes maximum, patch level for max. 6x LC-D	3x LC-D	225 x 260 x 100 mm
100043165	FO Wall Distributor	Housing with lockable door and one internal “assembling level”, 3x cable entry holes for 2x M25 glands + 1x variable feedthrough, for storage of 3x splice cassettes maximum, patch level for max. 6x LC-D	6x LC-D	225 x 260 x 100 mm
100043154	FO Wall Distributor	Housing with lockable door and one internal “assembling level”, 3x cable entry holes for 2x M25 glands + 1x variable feedthrough, for storage of 3x splice cassettes maximum, patch level for max. 6x E2000	4x E2000	225 x 260 x 100 mm

FO Wall Distributor 3.6.2

- Up to 4x incoming fiber optic cables
- Up to 8x splice cassettes
- Separately lockable doors
- Panels for different types of FO adaptors



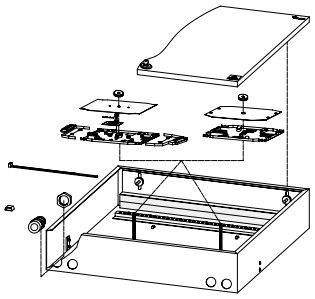


Part No.	Description	Remarks	Dimensions
100022176	FO Wall Distributor	Housing with two separately lockable swivel doors, with 4 cable entry holes for M25 glands, 2 each on top and bottom, for storage of 8 splice cassettes maximum, additional strain relief clamps and guiding clips for fibers and cables	440 x 440 x 95 mm

3.6.3 FO Wall Splice Box

- Up to 4x incoming fiber optic cables
- Up to 16x splice cassettes
- Strain relief bar for outgoing fiber optic cables



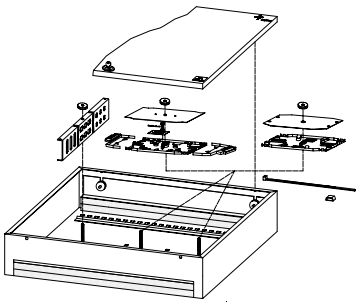


Part No.	Description	Remarks	Dimensions
100022177	FO Wall Splice Box	Housing with lockable cover, with 4x cable entry holes for M25 glands, strain relief bar for fixing by cable ties inside the housing and sealing foam strap, for storage of 16x splice cassettes maximum, additional strain relief clamps and guiding for fibers and cables	440 x 440 x 95 mm

3.6.4 FO Combi Wall Box

- Cable entry sealed by foam strips
- Strain relief bar with cable ties
- Accepts up to 24x splice cassettes
- Panels for different types of FO adaptors



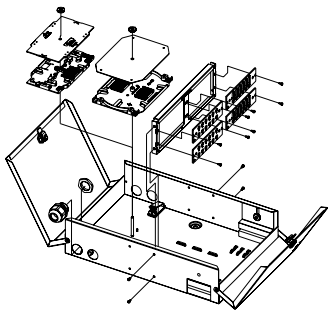


Part No.	Description	Remarks	Dimensions
100022179	FO Combi Wall Box	Housing with swivel lid, lockable, with strain relief bars inside the housing and sealing foam straps for incoming and outgoing cables, storage of 24x splice cassettes maximum, or 4x cassettes and 2x distribution plates.	440 x 440 x 85 mm

FO Modular Wall Distributor 3.6.5

- Accepts up to 4x 3U/7PU frontplates
- Mixed assembly of different adaptor types and fibres possible
- Allows splicing of up to 120 fibers



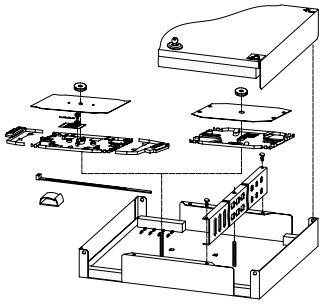


Part No.	Description	Remarks	Dimensions
100022291	FO Modular Wall Distributor	Housing with 2x swivel doors, separately lockable, each two cable entries on top/bottom for M25; max. 5x splice cassettes, for 4x 3U/7PU front plates	390 x 260 x 100 mm

FO Mini Wall Distributor 3.6.6

- Panels for different types of FO adaptors
- Accepts up to 4x splice cassettes and 1 panel
- Alternatively 8x splice cassettes without panels



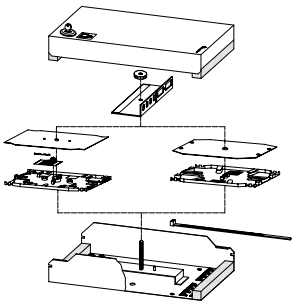


Part No.	Description	Remarks	Dimensions
100022178	FO Mini Wall Distributor	Housing with lockable cover, with each 2x cable entry openings for incoming and outgoing cables to be fixed by cable ties, with sealing straps, for storage of 8x splice cassettes maximum, or 4x cassettes and	320 x 280 x 50 mm

3.6.7 FO Compact Slice Box

- One splice cassette and one panel
- Alternatively 4x splice cassettes without panel
- With lockable cover





Part No.	Description	Remarks	Dimensions
100022181	FO Compact Splice Box	Housing with lockable cover, with 2x cable entry openings for incoming and outgoing cables to be fixed by cable ties, with sealing straps, for storage of 4x splice cassettes maximum or 1x cassette and1x panel	265 x 150 x 55 mm

3.6.8 FO Splice Box IP66



Part No.	Description	Remarks	Dimensions
100022259	FO splice box IP66 M-V	Housing with embossed holes M20/M25, for storage of up to 8x splice cassettes Telekom or 3x splice cassettes Telekom and 1x panel	360 x 254 x 111 mm
100022258	FO splice box IP66 S-V	Housing with embossed holes M20/M25, for storage of up to 5x splice cassettes Telekom or 3x splice cassettes Telekom and 1x panel	254 x 180 x 90 mm

Accessories for FO Splice Box IP66 3.6.9

Part No.	Description	Remarks
100001315	Cable insert for split cable gland M25, 2x Ø 2 mm	Polymere
100001316	Cable insert for split cable gland M25, 2x Ø 3 mm	Polymere
100001317	Cable insert for split cable gland M25, 4x Ø 2 mm	Polymere
100001318	Cable insert for split cable gland M25, 4x Ø 3 mm	Polymere
100001324	Cable insert for split cable gland M25, Ø 10 - 11 mm	Polymere
100001319	Cable insert for split cable gland M25, Ø 5 - 6 mm	Polymere
100001320	Cable insert for split cable gland M25, Ø 6 - 7 mm	Polymere
100001321	Cable insert for split cable gland M25, Ø 7 - 8 mm	Polymere
100001322	Cable insert for split cable gland M25, Ø 8 - 9 mm	Polymere
100001323	Cable insert for split cable gland M25, Ø 9 - 10 mm	Polymere



Part No.	Description	Remarks
100021328	Cable gland M20 for cable dia. 5 - 9 mm	Polyamide PA6, grey
100021350	Cable gland M20 for cable diameter 9 - 13 mm	Polyamide PA6, grey
100021352	Cable gland M25 for cable diameter 16 - 20 mm	Polyamide PA6, grey

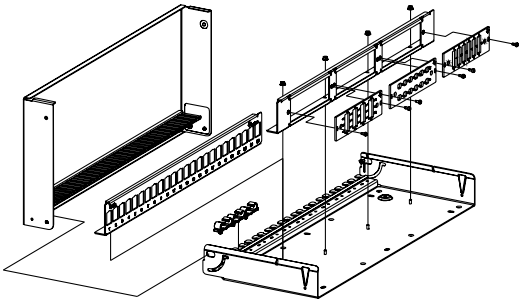


Part No.	Description	Remarks
100021331	Split cable gland, M25x1.5, with split nut hex 32	Polyamide PA6, grey

3.6.10 Distributor MPD24 FO

- Accepts up to 3x 3U/7PU frontplates
- Wall/surface mounting; housing base with wall adjustment
- Cover can be locked or removed (tool-less)





Part No.	Description	Type	Dimensions	Colour
100021508	MPD24 FO	3x 3U/7PU front plates	446 x 190 x 51 mm	Pure white RAL 9010

3.6.11 ODB 54 with assembled adaptors and pigtails

- Protection IP54
- Material: PC, IK04
- Locking with 2 snap-fits and optional lead seal
- Slack storage
- Please order splice holder separately
- Possibility to attach optical function modules
- Mounting of gas- or waterblocker for blow fiber system (optional)
- With flexible cable sealing for up to 24 patch cords Ø 1.8 - 2.8 mm



Part No.	Adaptors	Fiber pigtails	Dimensions
100022236	none	-	250 x 200 x 64 mm
100022249	E2000/APC adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm
100022241	LC duplex adaptor, multimode	12x 50/125 OM2	250 x 200 x 64 mm
100022242	LC duplex adaptor, multimode	12x 50/125 OM3	250 x 200 x 64 mm
100022332	LC duplex adaptor, multimode	12x 50/125 OM4	250 x 200 x 64 mm
100022243	LC duplex adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm
100022333	LC quad adaptor, multimode	24x 50/125 OM4	250 x 200 x 64 mm
100022244	LC/APC duplex adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm
100022237	SC duplex adaptor, multimode	12x 50/125 OM2	250 x 200 x 64 mm
100022238	SC duplex adaptor, multimode	12x 50/125 OM3	250 x 200 x 64 mm
100022331	SC duplex adaptor, multimode	12x 50/125 OM4	250 x 200 x 64 mm
100022239	SC duplex adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm

Part No.	Adaptors	Fiber pigtails	Dimensions
100022240	SC /APC duplex adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm
100022245	ST duplex adaptor, multimode	12x 50/125 OM2	250 x 200 x 64 mm
100022246	ST duplex adaptor, multimode	12x 50/125 OM3	250 x 200 x 64 mm
100022272	ST duplex adaptor, multimode	12x 50/125 OM4	250 x 200 x 64 mm
100022247	ST duplex adaptor, singlemode	12x 9/125 OS2	250 x 200 x 64 mm

ODB 54 - TICNET 3.6.12

- Protection IP54
- Material: PC, IK04
- Locking with 2 snap-fits and optional lead seal
- Slack storage
- Please order splice holder separately
- Possibility to attach optical function modules
- Mounting of gas- or waterblocker for blow fiber system (optional)
- With flexible cable sealing for up to 24 patch cords Ø 1.8 - 2.8 mm



Part No.	Description	Remarks
100022283	Housing ODB54 - TICNET	for max. 12 E2000 adaptors



Part No.	Description	Remarks
100022282	Housing ODB54 - TICNET	For max. 6 LC duplex adaptors
100022281	Housing ODB54 - TICNET	For max. 6 SC duplex / LC quad / ST duplex adaptors

3.6.13 SAM - Splice Arranged Management ODB 54



Part No.	Description	Remarks
100022285	ODB 54 equipped with 4 SE cassettes	for max. 12 fibers for crimp/shrink splice protection each cassette



Part No.	Description	Remarks
100022284	ODB 54 equipped with 8 SC cassettes	for max. 4 fibers for crimp/shrink splice protection each cassette

3.6.14 Accessories for ODB 54



Part No.	Description	Remarks
100021328	Cable gland M20 for cable dia. 5 - 9 mm	Polyamide PA6, grey
100021353	Cable gland M20 for cable dia. 7 - 13.5 mm	Polyamide PA6, grey



Part No.	Description
100026366	ODB 54 add-on-kit cable tie for gas/water blocker



Part No.	Description
100021314	ODB 54 add-on-kit cellular rubber patch cable entry



Part No.	Description	Remarks
100021116	Splice holder for 12 crimp splice protectors	System Telekom



Part No.	Description	Remarks
100021119	Splice holder for 6 shrink splices	for shrink splice protector Ø 3 mm

3.6.15 RDB with assembled adaptors and pigtails

- Degree of Protection IP66
- material: PC, IK 08UV resistance: UL 508
- Swivel lever can be equipped with profile half cylinder
- Complies with climatic test EN 60068-2-1/2/14/130
- Complies with vibration test EN 60068-2-64
- Complies with shock test EN 60068-2-27
- RDB = Rail Distribution Box for railroad applications



Part No.	Dimensions	Number of Adaptors	Adaptors	Fiber Pigtails	Colour	Panel piercings
100022322	400 x 300 x 153 mm	6	LC duplex adaptor, singlemode	12x E9/125 OS2	RAL 7035	for ST, SC, LC, E2000

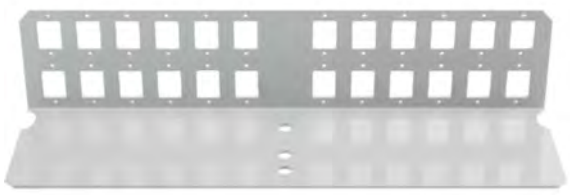
3.6.16 Distribution Plates for FO Wall Distributors and FO Splice Boxes



Part No.	Housing	Number of panel piercings and connector type	Panel piercings	Number of rows x panel piercings	Port marking
100021484	Combi-Wall Box / Mini Wall Distributor	12 SC Duplex, LC Quad	Z93	1x12	x
100021517	Combi-Wall Box / Mini Wall Distributor	24 E2000	Z66	2x12	x
100021483	Combi-Wall Box / Mini Wall Distributor	24 SC	Z77	2x12	x
100021553	Combi-Wall Box / Mini Wall Distributor	24 SC Duplex, LC Quad	Z93	4x6	x
100021482	Combi-Wall Box / Mini Wall Distributor	24 ST	Z64	2x12	x
100021543	Combi-Wall Box / Mini Wall Distributor	24 LC Duplex	Z99	2x12	x



Part No.	Housing	Number of panel piercings and connector type	Panel piercings	Number of rows x panel piercings
100021520	Compact Splice Box	12 ST	Z64	2x6
100021488	Compact Splice Box	4 SC Duplex, LC Quad	Z93	1x4
100021544	Compact Splice Box	6 E2000	Z66	1x6
100021485	Compact Splice Box	6 LC Duplex	Z99	1x6
100021519	Compact Splice Box	6 SC	Z77	1x6



Part No.	Housing	Number of rows x panel piercings	Panel piercings	Number of rows x panel piercings
100021539	Splice box IP66 M/M-V	18 SC Duplex, LC Quad	Z93	3x6
100021538	Splice box IP66 M/M-V	24 LC Duplex	Z99	2x12
100021536	Splice box IP66 M/M-V	24 SC	Z77	2x12
100021537	Splice box IP66 M/M-V	24 E2000	Z66	2x12
100021529	Splice box IP66 M/M-V	24 ST	Z64	2x12
100021554	Splice Box IP66 S/S-V	12 E2000	Z66	2x6
100021533	Splice Box IP66 S/S-V	12 SC adaptor	Z77	2x6
100021535	Splice Box IP66 S/S-V	12 ST	Z64	2x6
100021534	Splice Box IP66 S/S-V	12 LC Duplex	Z99	2x6
100021532	Splice Box IP66 S/S-V	12 SC Duplex, 12 LC Quad	Z93	1x12

3.6.16

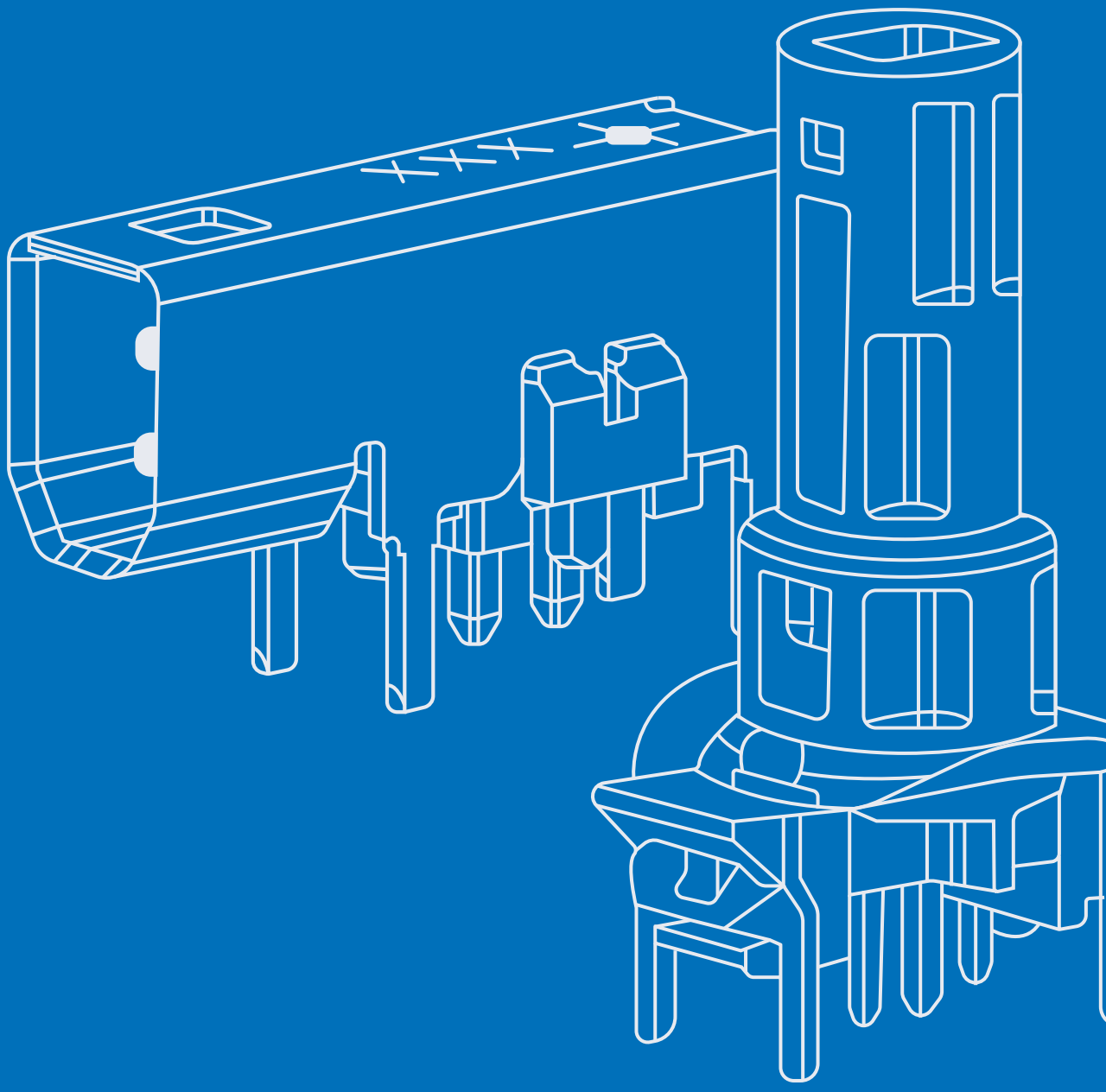
3.6.16 Distribution Plates for FO Wall Distributors and FO Splice Boxes



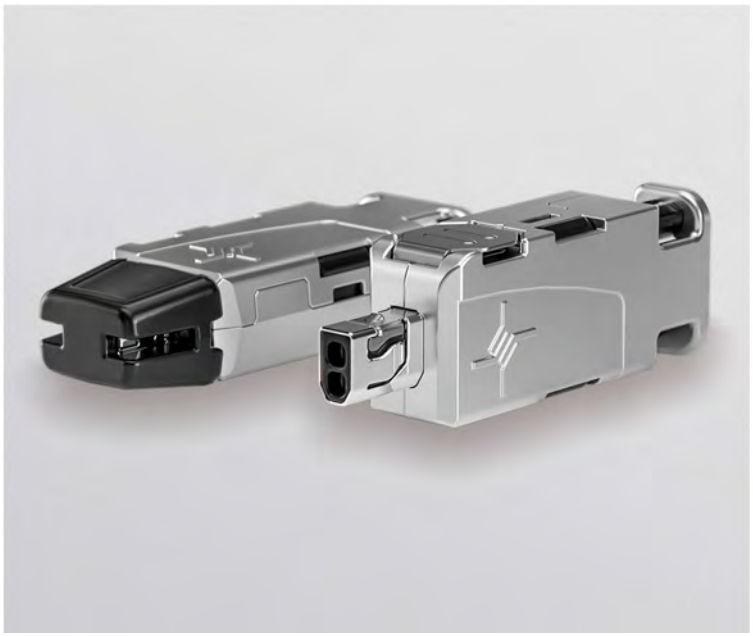
Part No.	Housing	Number of panel piercings and connector type	Panel piercings	Number of rows x panel piercings	Port marking
100021480	Wall Distributor	24 SC Duplex, LC Quad	Z93	4x6	x
100021516	Wall Distributor	48 E2000	Z66	3x16	x
100021476	Wall Distributor	48 SC	Z77	3x16	x
100021599	Wall Distributor	48 SC Duplex, LC Quad	Z93	2x24 vertical	x
100021475	Wall Distributor	48 ST	Z64	3x16	x
100021490	Wall Distributor	72 LC Duplex	Z99	3x24	x

4

SINGLE PAIR ETHERNET



SINGLE PAIR ETHERNET





4.1 Components for Field Cabling 115

4.1.1 SPE IP20 Cable Socket 115

4.1.2 SPE M8 IP67 Bulkhead Plug 116

4.1.3 SPE IP20 Bulkhead Plug 117

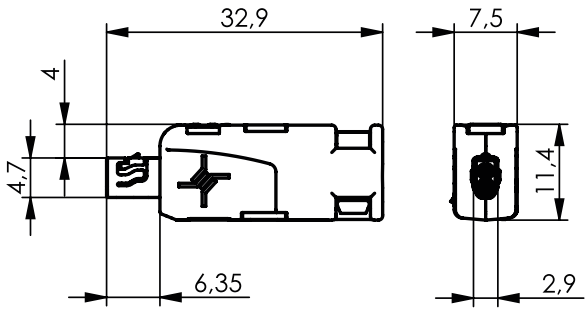
The ongoing digitalisation in industry is pushing existing Ethernet systems to their limits. New Ethernet cabling solutions are needed so that machines and systems can communicate with each other independently, fail-safe and in real time. Time for the next development step. Thanks to the revolutionary SPE technology, communication via Ethernet can be space-saving, cost-efficient and continuous from the sensor to the cloud for the first time. Cross-application with a range of up to 1.000 m and transmission speeds of up to 1 Gbit/s. Even more: with the help of Power over Data Line (PoDL), data and power are transmitted in parallel via just one pair. Compared to conventional four-pair cabling solutions, this means: less installation effort, less space requirement and less weight.

Technical characteristics	
Mating face	IEC 63171-2 and IEC 63171-5
Number of poles	2
Connections	THR/SMD/Crimp connection
Cable sheath	PUR
Cable construction	1x2xAWG22/7
Category	Cat. B (ISO/IEC 63171)
Protection class	IP67
Temperature range	-40 °C bis +85 °C
Degree of pollution	2
PoDL	Acc. to IEEE 802.3bu

Components for Field Cabling 4.1

SPE IP20 Cable Socket 4.1.1

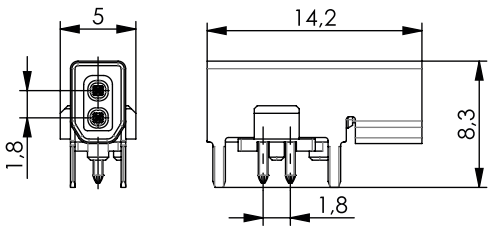




Part No.	Short name	Remarks
100033741	SPE Cable Socket T1-B field-assembly; AWG24/1-AWG22/1, AWG26/7-AWG22/7	2 pcs in carton

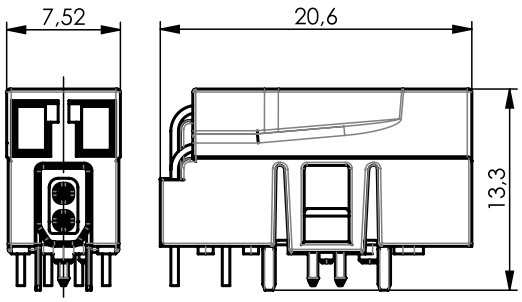
4.1.2 SPE M8 IP67 Bulkhead Plug





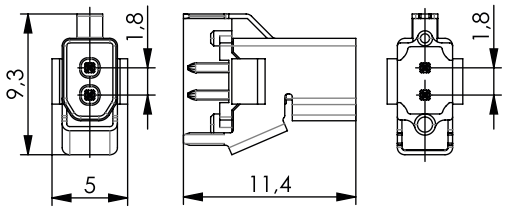
Part No.	Short name	Remarks
100033779	SPE IP20 Bulkhead Plug 90° THR	100 pcs in blister





Part No.	Short name	Remarks
100033781	SPE IP20 Bulkhead Plug 90° THR with LED	100 pcs in blister

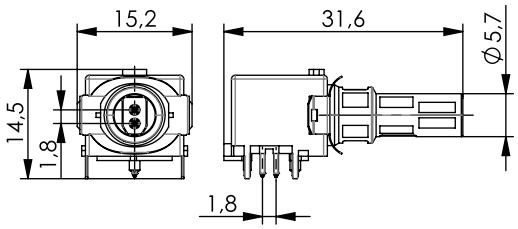




Part No.	Short name	Remarks
100033784	SPE IP20 Bulkhead Plug THR	100 pcs in blister

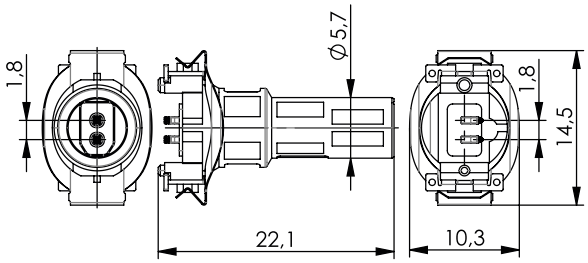
SPE IP20 Bulkhead Plug 4.1.3





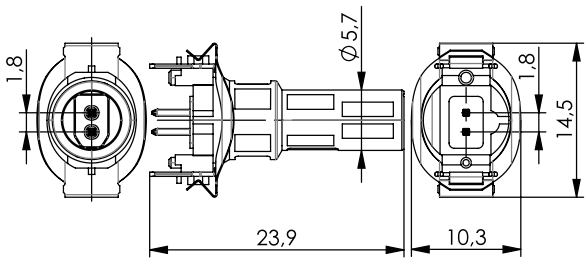
Part No.	Short name	Remarks
100033786	SPE IP20 , one-piece, solder connection 90° THR	100 pcs in blister





Part No.	Short name	Remarks
100033780	SPE M8 IP67 Bulkhead Plug SMD	100 pcs in blister

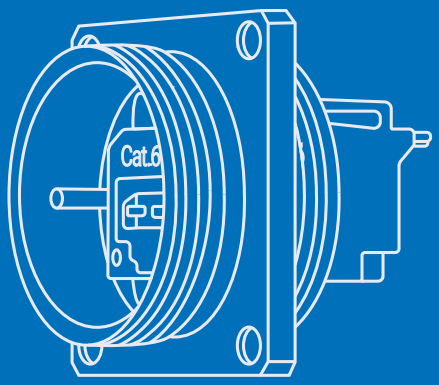


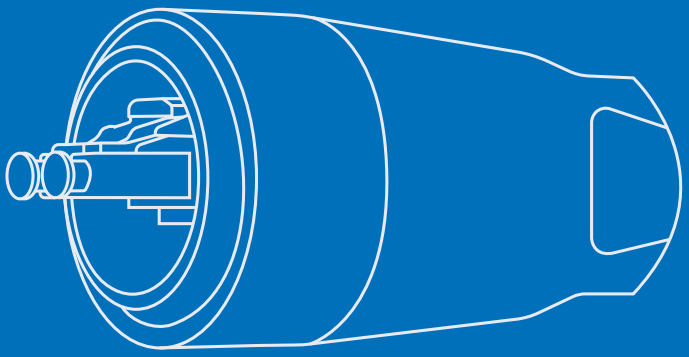


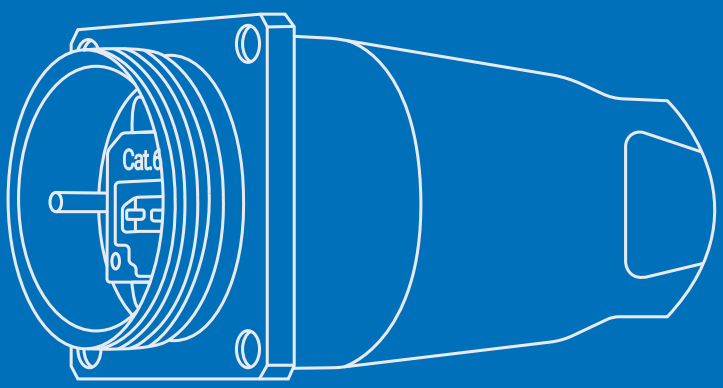
Part No.	Short name	Remarks
100033785	SPE M8 IP67 Bulkhead Plug THR	100 pcs in blister

5

COMPONENTS FOR OUTDOOR CABLING - RJ45/LWL

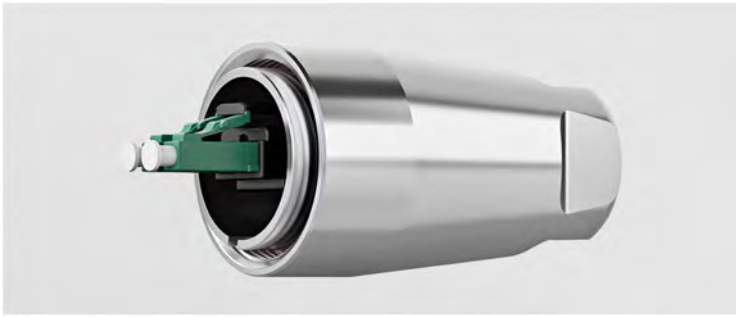






COMPONENTS FOR OUTDOOR CABLING
RJ45/FO

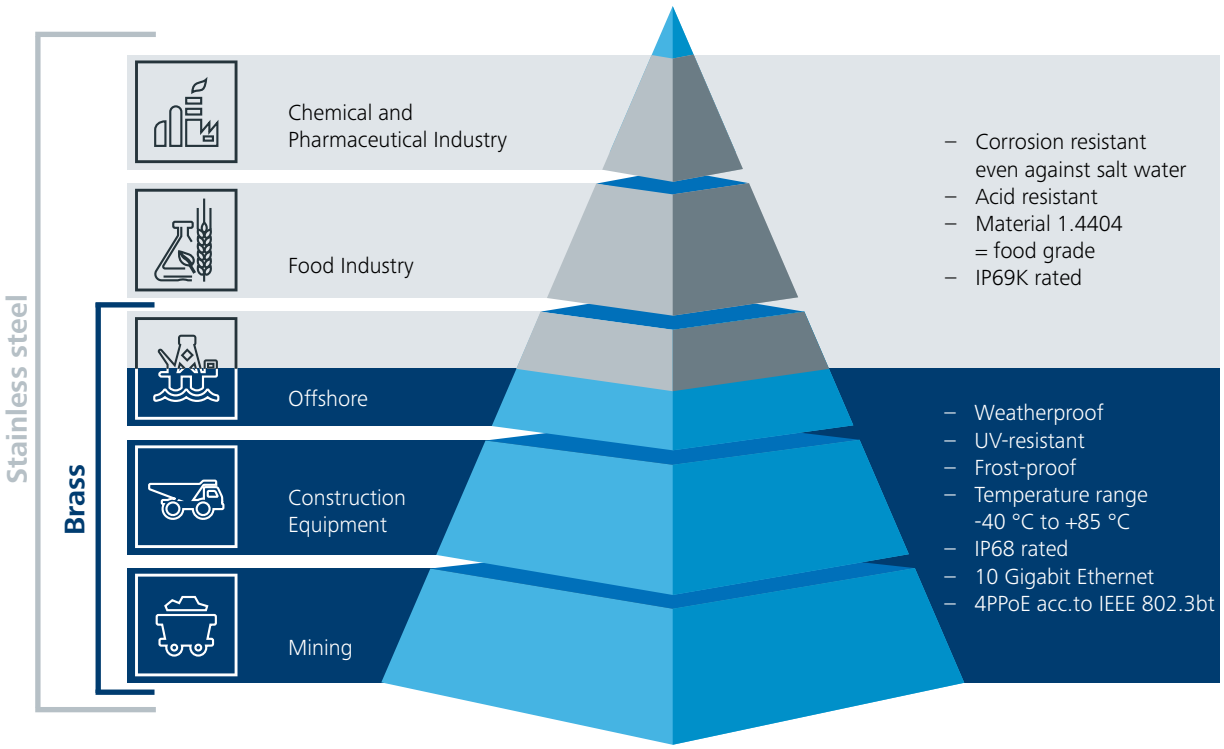






5.1 TOC Stainless steel 122
5.1.1 TOC Series RJ45 122
5.1.2 TOC Series LC Duplex 123
5.1.2 TOC Series accessories 124
5.2 TOC brass, nickel-plated 126
5.2.1 TOC Series RJ45 126
5.2.2 TOC Series LC Duplex 128
5.2.3 TOC Series MPO/MTP® 129
5.2.4 Accessories for TOC Series 130
5.3 TOC ODB 68 Distributor 131
5.4 TOC FEM Fiber Optic Connection Modules 132

TOC stands for Telecommunications Outdoor Connectors. That means: When maximum reliability is important, even under extreme environmental conditions, users rely on TOC connectors by Telegärtner. With the handy, easy to install connectors, long-term reliable connections can be easily implemented, regardless of whether its copper or fiber optics cabling. Whether in the classic version with nickel-plated brass or in stainless steel: TOC works where others have long had to give up. Without compromises.



The stainless steel TOC series takes connetions to a new level. It offer sall the benefits of the proven TOC-connector series with nickel-plated brass housing and adds a lot more: The stainless steel housing (material quality 1.4404) is designed for extreme conditions. TOC stainless steel connectors are:

- free of death space and easy to clean due to its smooth surface
- for areas with high hygienic and cleaning requirements
- acid-resistant
- corrosion resistant even against salt water
- lubricant free
- highly abrasion resistant
- free of welds
- IP69K rated
- field assembly with 100 screwing cycles

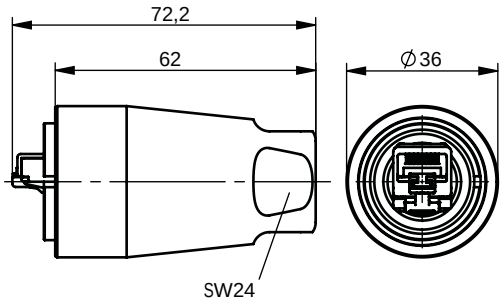
5.1 TOC Stainless steel

5.1.1 TOC-Serie RJ45

The TOC RJ45 series is available as a set with the easy-to-install MFP8 Cat.6_A plug and AMJ-S Cat.6_A module connection components and can be connected on site to cables with solid and stranded conductors and an outer diameter of up to 9.5 mm without the need for special tools. A cable section can be extended quickly and easily with the TOC coupler. For extensions, the TOC coupling with built-in RJ45 feed-through coupling can be integrated into the cabling structure.

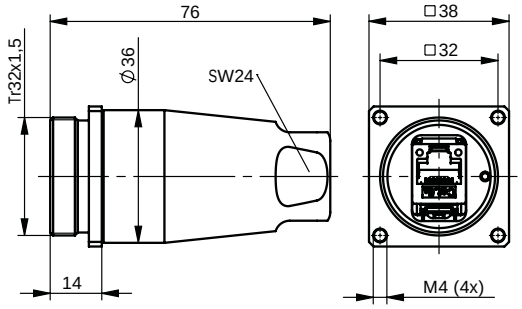
- core Diameter: 1.0 - 1.6 mm
- Cu-conductor: solid 0.41 - 0.64 mm (AWG24/1 – AWG22/1); stranded 0.46 - 0.76 mm (AWG27/7 – AWG22/7)
- cable outer diameter: 4 - 9.5 mm
- RJ45 plug MFP8 Cat.6_A acc. to IEC 60603-7-51 (500 MHz)





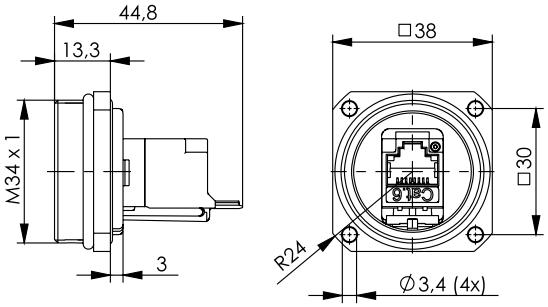
Part No.	Short name	Description	Remarks
100007388	TOC plug set IP69K	MFP8 T568B Cat.6_A	stainless steel type 1.4404





Part No.	Short name	Description	Remarks
100007386	TOC Bulkhead Outlet IP69K	AMJ-S Module Cat.6_A T568B	stainless steel type 1.4404

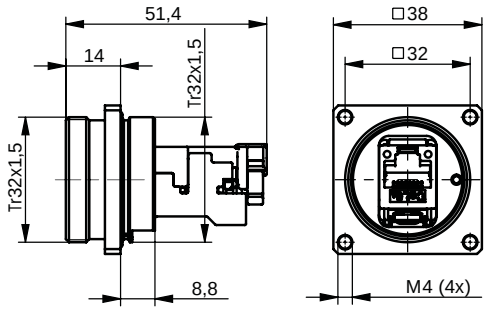




Part No.	Short name	Description	Remarks
100007382	TOC Bulkhead Set IP69K	AMJ Coupler K Cat.6_A	stainless steel type 1.4404

- 4-hole mounting, mounting cut-out Ø 30.5 mm
- core Diameter: 0.9 - 1.6 mm
- Cu-conductor: solid 0.4 - 0.64 mm (AWG26/1 – AWG22/1); stranded: 0.46 - 0.76 mm (AWG27/7 – AWG22/7)
- RJ45 AMJ-S Module Cat.6_A or AMJ Coupler K Cat.6 Class E_A acc. to IEC 60603-7-51



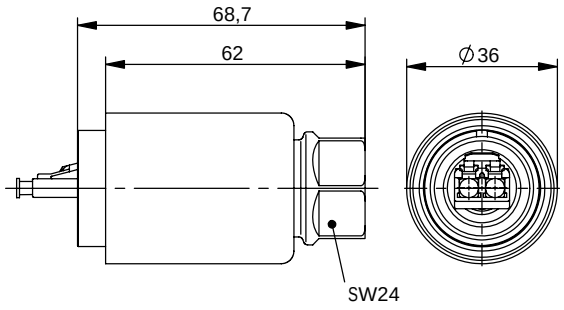


Part No.	Short name	Description	Remarks
100007380	TOC Bulkhead Set IP69K	AMJ-S Module Cat.6_A T568B	stainless steel type 1.4404

TOC Series LC Duplex 5.1.2

- single cable diameter: 2.0 mm
- cable outer diameter: 4 - 9.5 mm
- LC holding frame with elongated release latch and strain relief
- protection class IP68 acc. to IEC 60529
- Singlemode/Multimode (PC) & Singlemode (APC) types
- plug & adaptor acc. to IEC 61754-20 (circonia ceramics)



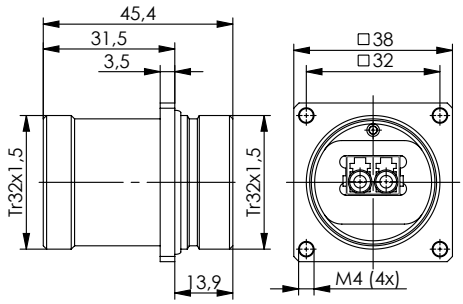


Part No.	Short name	Description	Remarks
100007396	TOC plug set IP69K	LC Duplex Multimode	stainless steel type 1.4404
100007397	TOC plug set IP69K	LC Duplex / APC Singlemode	stainless steel type 1.4404

5.1.2

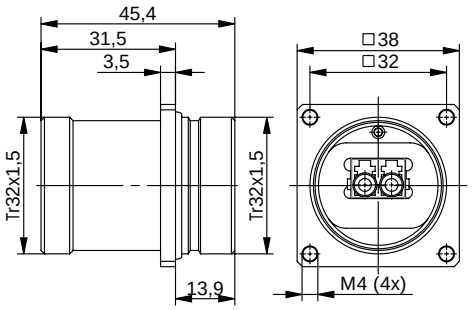
5.1.2 TOC Series LC Duplex





Part No.	Short name	Description	Remarks
100007406	TOC Bulkhead Set IP69K	LC Duplex adaptor APC Singlemode	stainless steel type 1.4404

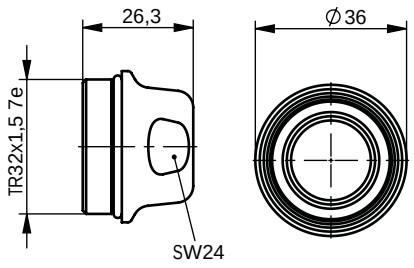




Part No.	Short name	Description	Remarks
100007405	TOC Bulkhead Set IP69K	LC Duplex adaptor Multimode	stainless steel type 1.4404

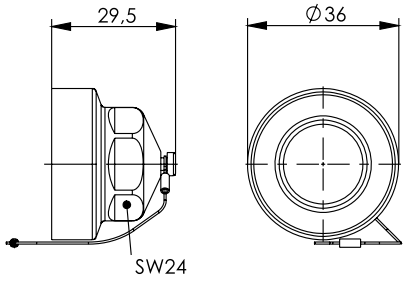
5.2.3 TOC Series accessories





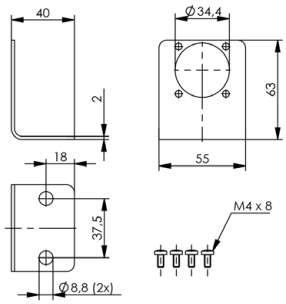
Part No.	Short name	Remarks
100022748	TOC plug protection cap IP69K	Stainless steel type 1.4404





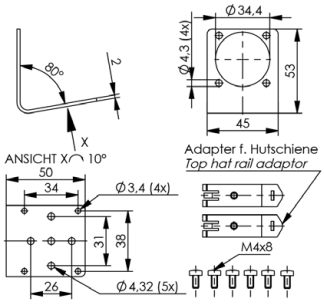
Part No.	Short name	Remarks
100022747	TOC bulkhead protection cap IP69K	Stainless steel type 1.4404





Part No.	Short name	Remarks
100022660	TOC bracket	Spurbreite 37,5mm für Schilderhalter





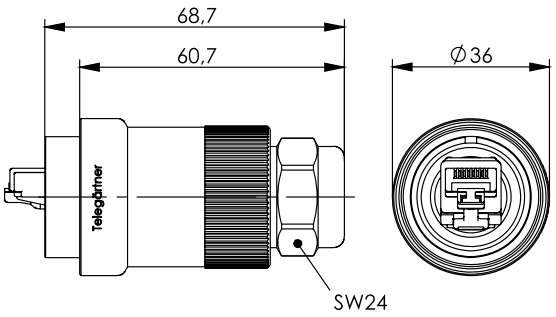
Part No.	Short name	Remarks
100022656	TOC bracket	gauge 38 mm and TH35

5.2 TOC brass, nickel-plated

5.2.1 TOC Series RJ45

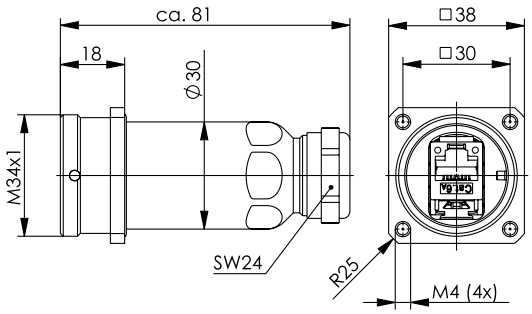
The TOC RJ45 series is available as a set with the easy-to-install MFP8 Cat.6_A plug and AMJ-S Cat.6_A module connection components and can be connected on site to cables with solid and stranded conductors and an outer diameter of up to 9.5 mm without the need for special tools. A cable section can be extended quickly and easily with the TOC coupler. For extensions, the TOC coupling with built-in RJ45 feed-through coupling can be integrated into the cabling structure.





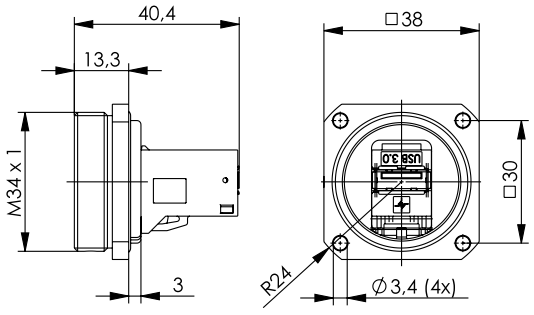
Part No.	Short name	Description	Remarks
100007387	TOC plug set IP68	MFP8 T568B Cat.6_A; AWG22-27	brass, nickel-plated





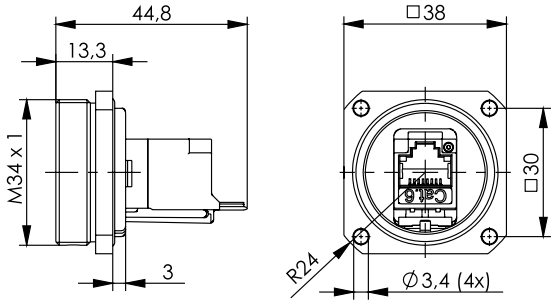
Part No.	Short name	Description	Remarks
100007385	TOC Bulkhead Outlet IP68	AMJ-S Module Cat.6_A T568B	brass, nickel-plated





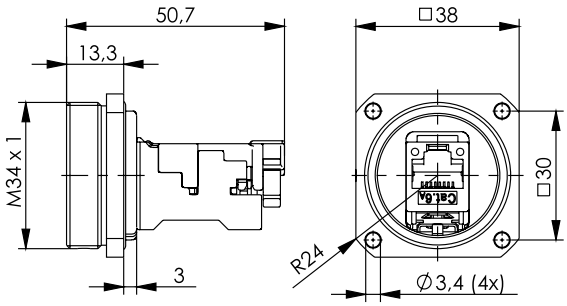
Part No.	Short name	Description	Remarks
100007383	TOC Bulkhead Set IP68	USB-Keystone 3.0 (f-f) Type A	brass, nickel-plated





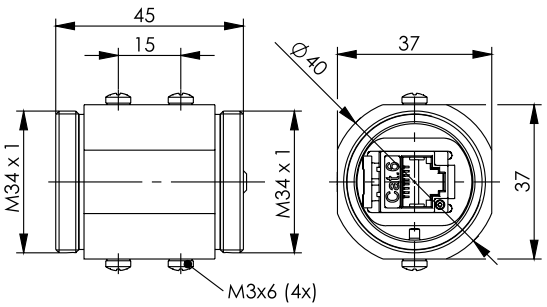
Part No.	Short name	Description	Remarks
100007381	TOC Bulkhead Set IP68	AMJ Coupler K Cat.6A	brass, nickel-plated





Part No.	Short name	Description	Remarks
100007379	TOC Bulkhead Set IP68	AMJ-S Module Cat.6_A T568B	brass, nickel-plated



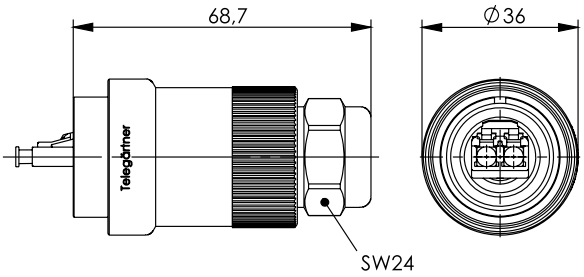


Part No.	Short name	Description	Remarks
100007390	TOC Coupler IP68	AMJ Coupler K Cat.6A	brass, nickel-plated

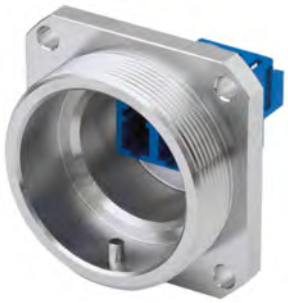
5.2.2 TOC Series LC Duplex

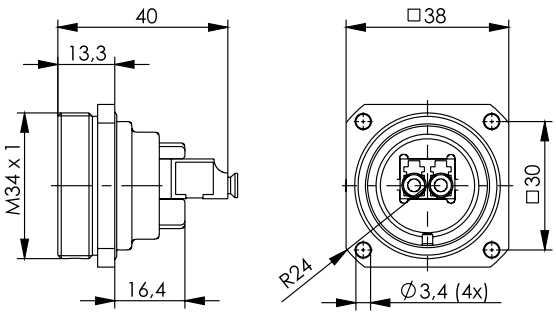
The TOC series for fiber optic connections with LC Duplex or MPO/MTP® impresses with its easy handling and flexibility. The extended locking lever and the release pin enable effortless insertion and removal even in confined spaces, both for couplers and SFP modules. Their different installation positions can be compensated for in all directions. The TOC connector housing is designed for cable diameters up to 9.5 mm. Extensions to the cabling section are easily possible with the TOC coupling.





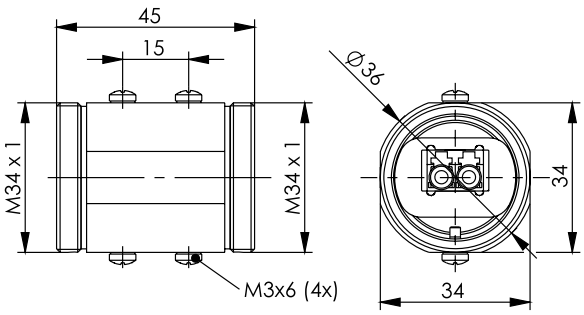
Part No.	Short name	Description	Remarks
100007402	TOC plug set IP68	LC Duplex, Singlemode	brass, nickel-plated
100007395	TOC plug set IP68	LC/APC Duplex Singlemode	brass, nickel-plated
100007394	TOC plug set IP68	LC Duplex Multimode	brass, nickel-plated





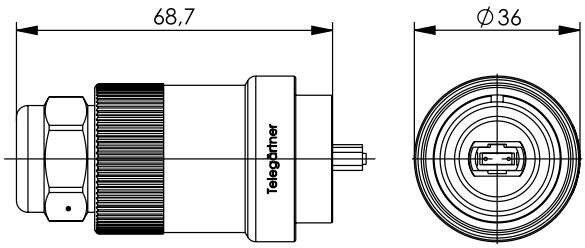
Part No.	Short name	Description	Remarks
100007404	TOC Bulkhead Set IP68	LC/APC duplex adaptor, Singlemode	brass, nickel-plated
100007403	TOC Bulkhead Set IP68	LC Duplex adaptor Singlemode/Multimode	brass, nickel-plated





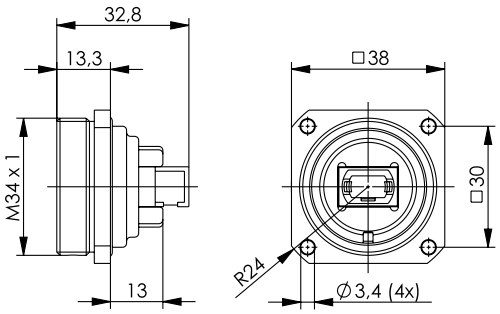
Part No.	Short name	Description	Remarks
100007407	TOC Coupler IP68	LC Duplex adaptor Singlemode/Multimode	brass, nickel-plated





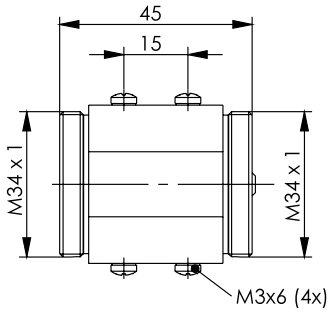
➨ Part No.	Short name	Description	Remarks
100007401	TOC plug set IP68	MPO/MTP® female, APC Singlemode	brass, nickel-plated
100007399	TOC plug set IP68	MPO/MTP® male, APC Singlemode	brass, nickel-plated
100007400	TOC plug set IP68	MPO/MTP® female, Multimode	brass, nickel-plated
100007398	TOC plug set IP68	MPO/MTP® male, Multimode	brass, nickel-plated





➨ Part No.	Short name	Description	Remarks
100007409	TOC Bulkhead Set IP68	MPO/MTP® adaptor Singlemode/Multimode	brass, nickel-plated

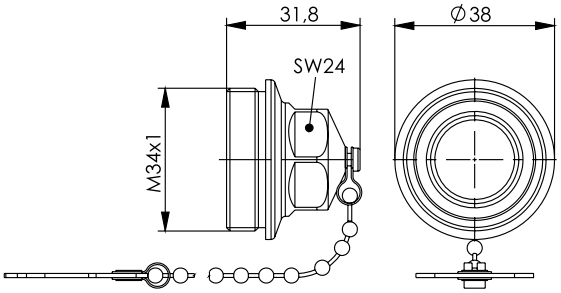




➨ Part No.	Short name	Description	Remarks
100007410	TOC Coupler IP68	MPO/MTP® adaptor Singlemode/Multimode	brass, nickel-plated

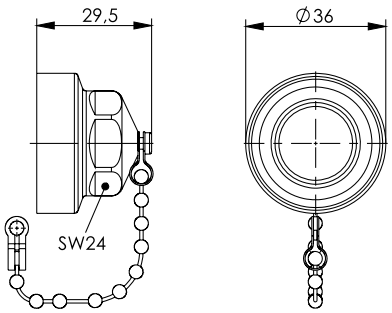
5.2.4 Accessories for TOC Series





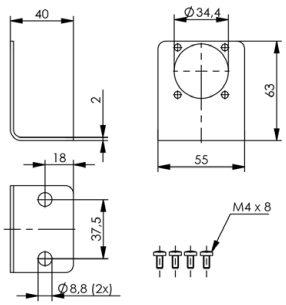
Part No.	Short name	Remarks
100022746	TOC plug protection cap IP68	nickel-plated brass; with chain





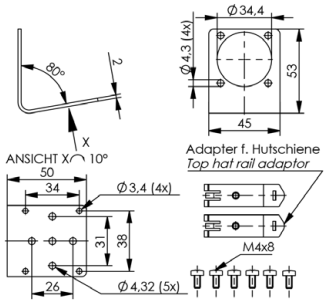
Part No.	Short name	Remarks
100022745	TOC bulkhead protection cap IP68	nickel-plated brass; with chain





Part No.	Short name	Remarks
100022660	TOC bracket	gauge 37.5 mm





Part No.	Short name	Remarks
100022656	TOC bracket	gauge 38 mm and TH35

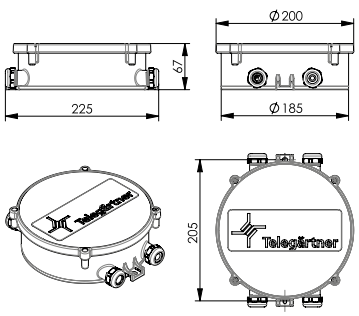
TOC ODB 68 Distributor 5.3

Part No.	Short name	Remarks
100001329	Sealing sleeve	cable Ø 13 - 9 mm
100001330	Sealing sleeve	cable Ø 10.5 - 7 mm
100001333	Sealing sleeve	cable Ø 6.5 - 4 mm
100001332	Sealing sleeve	cable Ø 8 - 5 mm
100001331	Sealing sleeve	cable Ø 9.5 - 6.5 mm

Part No.	Short name
100000106	Cable gland w/o sleeve

Whether for building cabling or FTTH networks, mobile communications or industrial applications, security technology or smart grids - the robust TOC ODB 68 small distributor protects fiber optic connections even under harsh indoor and outdoor conditions. Its space-saving, sturdy housing is waterproof and dustproof to IP68 and UV-resistant. It is equally suitable for mounting on walls and ceilings, in the floor and on masts. The round housing shape ensures compliance with the minimum bending radius for cable and fiber overlengths and provides additional space for couplers, attenuators and splitters in WDM and FTTH applications. The TOC ODB 68 can be used as a pure splice housing with splice cassettes and as a distributor for pre-assembled TICNET fiber optic lines with a variety of different fiber optic couplers. The variant for TICNET fiber optic lines includes two special adapters with which the fiber optic lines can be screwed to the distributor in a torsion-free, dustproof and watertight manner. As a universal product solution, the innovative TOC ODB 68 offers the versatility and flexibility that modern fiber optic networks require.





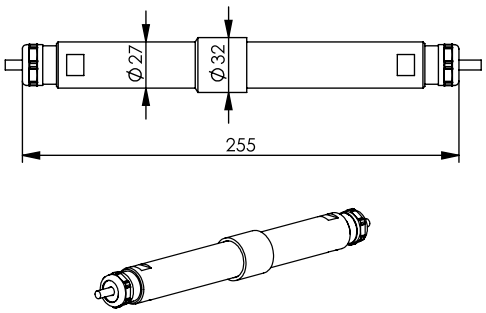
Part No.	Short name	Type
100022299	TOC ODB 68 for splicing of max. 12 fibers	with 1 splice cassette, for 2 cables with Ø8 - 5 mm
100022300	TOC ODB 68 for splicing of max. 24 fibers	with 2 splice cassettes; 2 cables with Ø5 - 8 mm

Part No.	Short name	Type
100022301	TOC ODB 68 for splicing of max. 36 fibers	with 3 splice cassettes; 2 cables with Ø13 - 9 mm
100022302	TOC ODB 68 for splicing of max. 48 fibers	with 4 splice cassettes; 2 cables with Ø13 - 9 mm
100022303	TOC ODB 68 TICNET	with 2 adaptors for ODS/M20
100022697	TOC ODB 68 TICNET adaptor	ODS/M20

5.4 TOC FEM Fiber Optic Connection Modules

The fiber optic connection module TOC-FEM (Fiber Extension Module) from Telegärtner connects pre-assembled fiber optic cables both indoors and outdoors. Its robust metal housing protects the connection safely and reliably against environmental influences and mechanical loads. The elastic sealing insert makes it suitable for new installations as well as for retrofitting on site. The possible uses are as varied as the applications themselves: IP cameras in outdoor areas need to be connected to the building network machines or systems are relocated and need to be reconnected to the network as quickly as possible; data distributors are moved and the existing cables need to be extended; mobile radio antennas are replaced by a new generation of devices that need to be connected quickly and easily on the mast; cables are damaged and need to be permanently repaired, ... the possibilities are almost endless. Whether transitioning from outdoor to indoor cables, extending, separating and reconnecting existing cables or repairing damaged cables - TOC-FEM connects what belongs together.

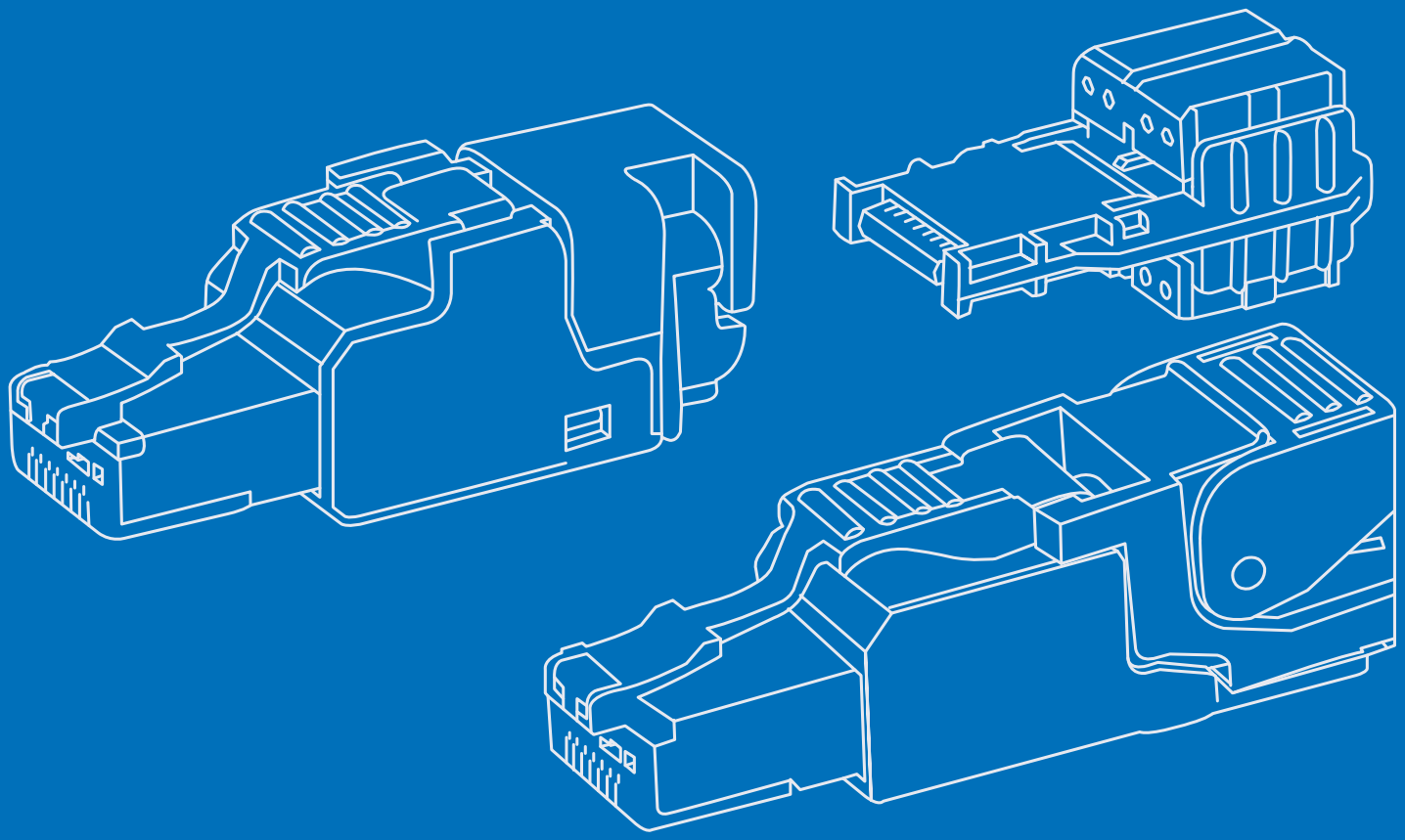




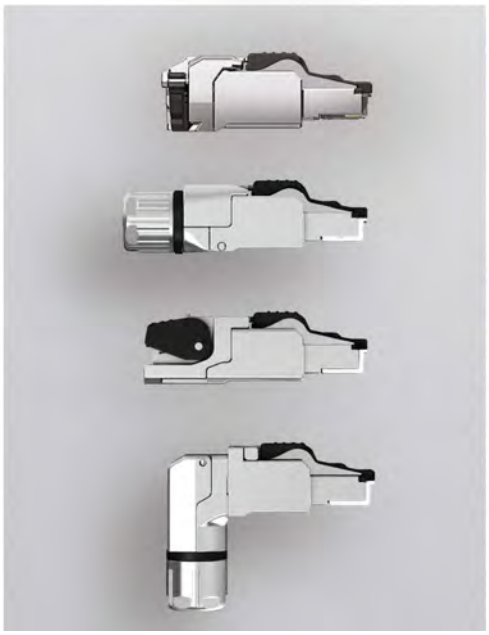
Part No.	Short name	Type
100022487	TOC FEM LC Duplex	Multimode, ceramic sleeve, IP67
100022486	TOC FEM LC Duplex	Singlemode, ceramic sleeve, IP67
100022488	TOC FEM MPO/MTP®	Singlemode and Multimode, IP67

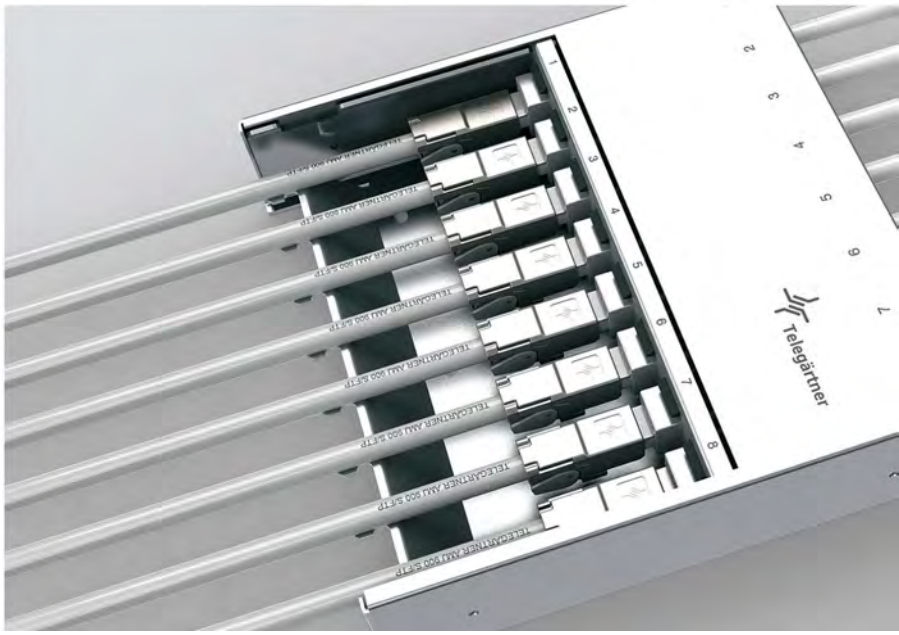
6

RJ45 CONNECTORS IP20



RJ45 CONNECTORS IP20





6.1 RJ45 Connectors IP20 shielded 137
6.2 RJ45 Connectors IP20 unshielded 146

For the assembly of RJ45 patch cords Telegärtner offers RJ45 plugs using no special tools as well as for crimp termination. The RJ45 connectors acc. to IEC 60603-7 are available in several designs. The Cat.6_A MFP8 connector for stranded and solid wire cables can easily be assembled onsite without any special tools. The maximum cable diameter is 10.0 mm. The connector features the T568A/B or PROFINET pin assignment and a 360° shielding connection. The unshielded Cat.6_A UFP8 connector for stranded AWG27/7-22/7 or solid wire cables AWG24/1-22/1 can easily be assembled onsite without any special tools. The maximum cable diameter is 8.5 mm. The Cat.6_A connector MP8 FS for stranded and solid wire cables completes the product line. Assembled with a crimp tool it offers shielding connection and a wire presorting for easy handling, too. The strain relief pressure is thereby absorbed by the cable jacket. This avoids deformation of wires. 1-part and 2-part cable boots in different colours are available additionally. Suitable crimp tools, one for less frequent usage (> 1.000 operations), the other for professional application (> 10.000 operations) round-off the product range. All connectors are capable for use in multiport-applications such as patch panels, switches, etc.

	MFP8 Cat.8.1	MFP8-SL Cat.8.1	MFP8-SL Cat.6_A	MFP8 Cat.6_A
Standards				
Connector	IEC 60603-7-81	IEC 60603-7-81	IEC 60603-7-51	IEC 60603-7-51
Mechanical Characteristics				
Insertion force	< 30 N			
Life (mating cycles)	> 750			
Material: Connector housing	Zinc die-cast Ni plated			
Material: Contact housing	PC UL94 V0 crystal clear			
Material: Wire presorting	PC UL94 V0 white			
Material: Strain relief	PC UL94 V0 black			
Material: Hook, protection cap	PBT UL94 V0 black			
Material: Screening shield	Spring steel			
Material: PCB	FR4 UL94 V0 soldermask both side			
Material: Piercing contacts	Phosphorous bronze, min. 3...6 µm Sn			
Material: Shield contact	Brass 2.5 µm Ni			
Material: Contacts	Spring steel 0.8 µm Au; 1.2 µm Ni			
Cu-conductor diameter: solid	0.51 - 0.64 mm AWG24/1 - AWG22/1			
Cu-conductor diameter: stranded	0.46 - 0.76 mm AWG27/7 - AWG22/7	0.46 - 0.76 mm AWG27 - AWG22/7	0.46 - 0.76 mm AWG27/7 - AWG22/7	0.46 - 0.76 mm AWG27/7 - AWG22/7
Core diameter	1.0 - 1.6 mm			
Cable diameter	5.5 - 10.0 mm	5.0 - 9.0 mm	5.0 - 9.0 mm	5.0 - 9.0 mm
Environmental Requirements				
Ambient temperature	-40 °C to +85 °C			
UL listed	E244889			
Electrical Characteristics				
Current carrying capacity at 50 °C	1 A			
PoE according to IEEE 802.3af	Adequate for Power over Ethernet			
PoE+ according to IEEE 802.3at	Adequate for Power over Ethernet+			
4P PoE according to IEEE 802.3bt	Adequate for 4 Pair Power over Ethernet			
Transmission Performance				
10 Gigabit Ethernet acc. to IEEE 802.3an	furfilled			
40 Gigabit Ethernet acc. to IEEE 802.3bq	furfilled		-	-

	MFP8 4x90 Cat.6$_A$	MFP8 IE Cat.6$_A$	UFP8 Cat.6$_A$ AWG27-23	UFP Cat.6$_A$ AWG23-22
Standards				
Connector	IEC 60603-7-51	IEC 60603-7-51	IEC 60603-7-41	IEC 60603-7-41
Mechanical Characteristics				
Insertion force	< 30 N		< 20 N	
Life (mating cycles)	> 750			
Material: Connector housing	Zinc die-cast Ni plated		PC UL94 V0 black	
Material: Contact housing	PC UL94 V0 crystal clear		PC UL94 V0 sky blue transparent	PC UL94 V0 yellow transparent
Material: Wire presorting	PC UL94 V0 crystal clear	PC UL94 V0 white	PC UL94 V0 grey	PC UL94 V0 white
Material: Strain relief	PC UL94 V0 white	PC UL94 V0 black	-	-
Material: Hook, protection cap	PBT UL94 V0 black			
Material: Screening shield	Spring steel		-	-
Material: PCB	FR4 UL94 V0 soldermask both side			
Material: Piercing contacts	Phosphorous bronze, min. 3...6 µm Sn			
Material: Shield contact	Brass 2.5 µm Ni		Brass Ni plated	
Material: Contacts	Spring steel 0.8 µm Au; 1.2 µm Ni			
Cu-conductor diameter: solid	0.51 - 0.64 mm AWG24/1 - AWG22/1		0.51 - 0.57 mm AWG24/1 - AWG23/1	0.57 - 0.64 mm AWG23/1 - AWG22/1
Cu-conductor diameter: stranded	0.46 - 0.65 mm AWG27/7 - AWG22/7	0.46 - 0.76mm AWG27/7 - AWG22/7	0.46 - 0.65 mm AWG27/7 - AWG23/7	0.65 - 0.76mm AWG23/7 - AWG22/7
Core diameter	1.0 - 1.6 mm		0.85 - 1.1 mm	1.1 - 1.6 mm
Cable diameter	5.5 - 10.0 mm		5.5 - 8.5 mm	
Environmental Requirements				
Ambient temperature	-40 °C to +85 °C		-40 °C to +70 °C	
UL listed	E244889			
Electrical Characteristics				
Current carrying capacity at 50 °C	1 A			
PoE according to IEEE 802.3af	Adequate for Power over Ethernet			
PoE+ according to IEEE 802.3at	Adequate for Power over Ethernet+			
4P PoE according to IEEE 802.3bt	Adequate for 4 Pair Power over Ethernet		-	-
Transmission Performance				
10 Gigabit Ethernet gemäß IEEE 802.3an	furfilled			

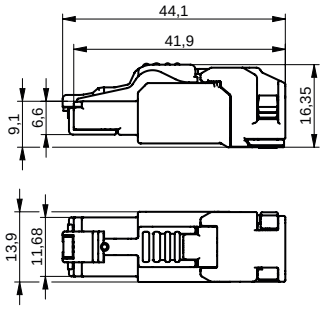
*approval of cable by Telegärtner Karl Gärtner GmbH required

RJ45 Connectors IP20 shielded 6.1

The MFP8 connector series is the ideal solution for numerous applications with transmission rates of up to 40 Gigabit Ethernet. They can be connected to all standard cable types in just 60 seconds without the need for special tools. Whether in the office or data center, in industry, in security technology or in home networks: the MFP8 offers maximum flexibility with minimum effort.

- pre-assembled protection cap
- robust zinc diecast housing
- 360° shielding
- full metal shielding between pairs of wires
- three strain relief settings (cable diameters 5.0 mm to 9.0 mm)
- can be assembled in 60 seconds without any special tools
- optimised for the field, including demanding applications
- secure transmission even with outside interference
- four-chamber wire manager (available with colour code T568A or T568B and PROFINET)
- suitable for cabling in office buildings, data centers, industrial facilities and home networks
- supreme reliability
- ideal for network repairs, special lengths and extensions
- piercing contacts suitable for solid and stranded conductors
- UL listed



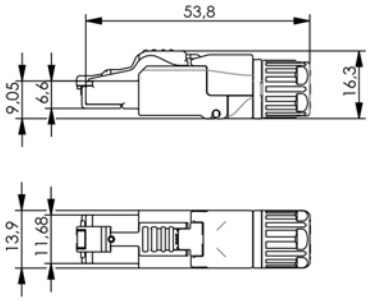


Part No.	Short name	Remarks	Type
100039923	MFP8-SL T568 B Cat.8.1	incl. pre-assembled protection cap AWG24/1-AWG22/1, AWG27/7-AWG22/7	package of 10x1
100039924	MFP8-SL T568 B Cat.8.1	incl. pre-assembled protection cap AWG26/1-AWG24/1, AWG27/7-AWG24/7	package of 10x1
100035951	MFP8-SL T568 A Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100039916	MFP8-SL T568 B Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100039917	MFP8-SL T568 A Cat.6_A	AWG26/1-AWG24/1, AWG27/7-AWG24/7, incl. pre-assembled protection cap	package of 10x1
100039918	MFP8-SL T568 B Cat.6_A	AWG26/1-AWG24/1, AWG27/7-AWG24/7, incl. pre-assembled protection cap	package of 10x1
100040203	MFP8-SL PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100037418	MFP8-SL T568 A Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100039920	MFP8-SL T568 B Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100039921	MFP8-SL T568 A Cat.6_A	AWG26/1-AWG24/1, AWG27/7-AWG24/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100039922	MFP8-SL T568 B Cat.6_A	AWG26/1-AWG24/1, AWG27/7-AWG24/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100040222	MFP8-SL PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)

6.1 RJ45 Connectors IP20 shielded

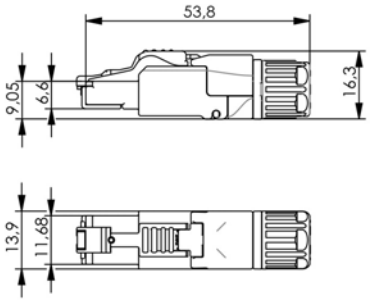
- Connectors according to IEC 60603-7
- Suitable for 25/40 Gigabit Ethernet 25/40GABSE-T according to IEEE 802.3bq
- Suitable for 4 Pair Power over Ethernet 4PPoE according to IEEE 802.3bt
- Backwards compatible with Class EA/Category 6A in accordance with ISO/IEC 11801, DIN EN 50173 and ANSI/TIA-568.2
- Four-chamber wire manager with colour coding
- For shielded cabling
- Multi-port capable
- Can be assembled in 60 seconds and without special tools
- Optimised for on-site installation
- IPC piercing contacts suitable for solid and stranded conductors
- Protection class IP20
- Suitable for cable outer diameter 5.5 to 10.0 mm
- Screwed cable strain relief SW13
- With pre-assembled protective cap
- UL-listed





Part No.	Short name	Remarks	Type
100023089	MFP8 T568B Cat.8.1	incl. pre-assembled protection cap AWG24/1-AWG22/1, AWG27/7-AWG22/7	package of 10x1
100023090	MFP8 T568B Cat.8.1	incl. pre-assembled protection cap AWG26/1-AWG24/1, AWG27/7-AWG24/7	package of 10x1

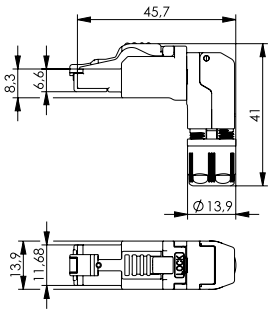




Part No.	Short name	Remarks	Type
100023084	MFP8 IE T568 A Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023085	MFP8 IE T568 B Cat.6_A	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023086	MFP8 IE PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023088	MFP8 IE T568 A Cat.6_A	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1
100023087	MFP8 IE T568 B Cat.6_A	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1

Part No.	Short name	Remarks	Type
100023091	MFP8 IE T568 A Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023092	MFP8 IE T568 B Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023093	MFP8 IE PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023095	MFP8 IE T568 A Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023094	MFP8 IE T568 B Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)



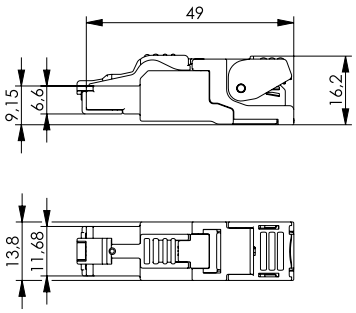


Part No.	Short name	Remarks	Type
100023061	MFP8-4x90 T568A Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023062	MFP8-4x90 T568B Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023063	MFP8-4x90 PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023065	MFP8-4x90 T568A Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1
100023064	MFP8-4x90 T568B Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1
100023066	MFP8-4x90 T568A Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023067	MFP8-4x90 T568B Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023068	MFP8-4x90 PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023070	MFP8-4x90 T568A Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023069	MFP8-4x90 T568B Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)

6.1 RJ45 Connectors IP20 shielded

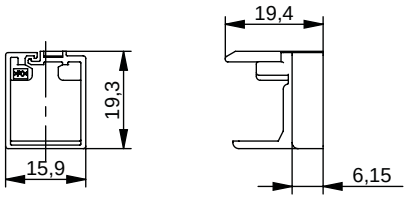
- Connectors according to IEC 60603-7
- Suitable for 10 Gigabit Ethernet 10GBASE-T according to IEEE 802.3
- Suitable for 4 Pair Power over Ethernet 4PPoE according to IEEE 802.3bt
- Four-chamber wire manager with colour coding
- For shielded cabling
- Multi-port capable
- Can be assembled in 60 seconds and without special tools
- Optimised for on-site installation
- IPC piercing contacts suitable for solid and stranded conductors
- Protection class IP20
- Suitable for cable outer diameter 5.0 to 9.0 mm
- Three-stage latching cable strain relief
- With pre-assembled protective cap
- UL-listed





Part No.	Short name	Remarks	Type
100023037	MFP8 T568 A Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023038	MFP8 T568 B Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023039	MFP8 PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	package of 10x1
100023041	MFP8 T568 A Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1
100023040	MFP8 T568 B Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	package of 10x1
100023042	MFP8 T568 A Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023043	MFP8 T568 B Cat.6$_A$	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023044	MFP8 PROFINET	AWG 24/1-22/1, AWG 27/7-22/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023046	MFP8 T568 A Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)
100023045	MFP8 T568 B Cat.6$_A$	AWG 26/1-24/1, AWG 27/7-24/7, incl. pre-assembled protection cap	blister package (10 pcs.)





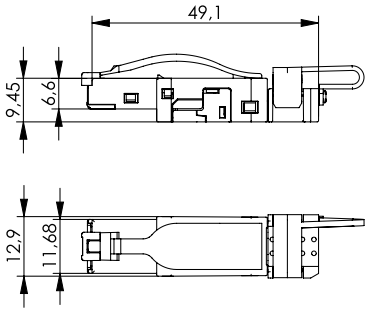
Part No.	Short name	Remarks	Type
100001052	MFP8 Adapter	Suitable for all MFP8 variants, for easy unlocking in confined spaces, secure fit in the application, stable plug connection during vibration, often the RJ45 jack is installed deep in the switch, making it difficult to unlock the RJ45 plug. With this adaptor for the MFP8 series the problem is solved.	package of 10



Part No.	Short name	Remarks	Type
100020632	MFP8 wire manager T568A	AWG24/1-AWG22/1, AWG27/7-AWG22/7	blister package (30 pcs.)
100020636	MFP8 wire manager T568A	AWG26/1-AWG24/1, AWG27/7-AWG24/7	blister package (30 pcs.)
100020633	MFP8 wire manager T568B	AWG24/1-AWG22/1, AWG27/7-AWG22/7	blister package (30 pcs.)
100020635	MFP8 wire manager T568B	AWG26/1-AWG24/1, AWG27/7-AWG24/7	blister package (30 pcs.)
100020634	MFP8 PROFINET	AWG24/1-AWG22/1, AWG27/7-AWG22/7	blister package (30 pcs.)

- Connectors according to IEC 60603-7
- Suitable for 10 Gigabit Ethernet 10GBASE-T according to IEEE 802.3
- Suitable for 4 Pair Power over Ethernet 4PPoE according to IEEE 802.3bt
- colour coding T568A, T568B and PROFINET
- For shielded cabling
- Multi-port capable
- Can be assembled in 60 seconds and without special tools
- Optimised for on-site installation
- IPC piercing contacts suitable for solid and stranded conductors
- Protection class IP20
- Suitable for cable outer diameter 5.5 to 8.5 mm
- Cable strain relief clipped





Part No.	Short name	Remarks
100007453	STX IP20 RJ45 plug Cat.6 Class E_A	AWG22-26, pin assignment T568A, T568B and PROFINET, field assembly

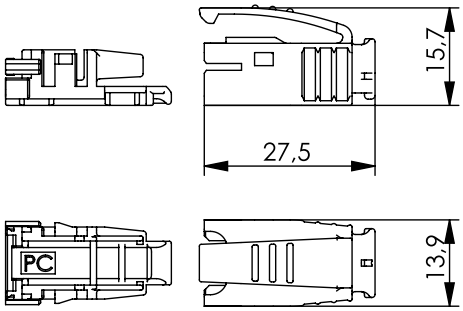


Part No.	Short name	Remarks
100007491	STX IP20 RJ45 plug Cat.6 Class E_A	AWG22-26, with printed wire presorting acc. to T568A, field assembly
100007492	STX IP20 RJ45 plug Cat.6 Class E_A	AWG22-26, with printed wire presorting acc. to T568B, field assembly
100007493	STX IP20 RJ45 plug Cat.6 Class E_A	AWG22-26, with printed wire presorting acc. to PROFINET, field assembly

6.1 RJ45 Connectors IP20 shielded

- cable boot for MP8(8) series plugs
- Two-part structure for particularly easy installation
- Long tongue for easy operation of the plug locking lever even in confined spaces

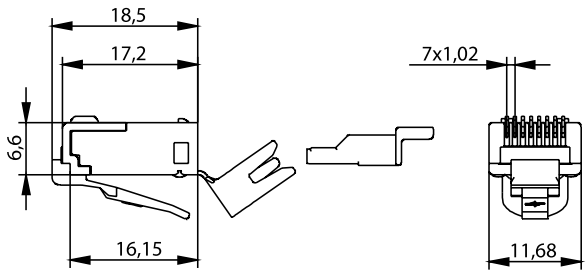




Part No.	Short name	Remarks	Farbe
100022905	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	black
100022899	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	white
100022901	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	orange
100022904	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	green
100022900	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	grey
100022903	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	yellow
100022902	STX cable boot for STX IP20 RJ45 plug (100023019)	for cable diameter 5.0 - 7.3 mm	blue

- Connectors according to IEC 60603-7
- Suitable for 10 Gigabit Ethernet 10GBASE-T according to IEEE 802.3
- Suitable for 4 Pair Power over Ethernet 4PPoE according to IEEE 802.3bt
- With wire pre-sorting for particularly easy connection
- For shielded cabling
- Multi-port capable
- für die Montage mit Crimp-Werkzeug
- IPC piercing contacts suitable for solid and stranded conductors
- Strain relief acts on the cable sheath, thus preventing the wires from being crushed
- Protection class IP20
- Suitable for cable outer diameter 5.5 to 7.3 mm
- UL listed

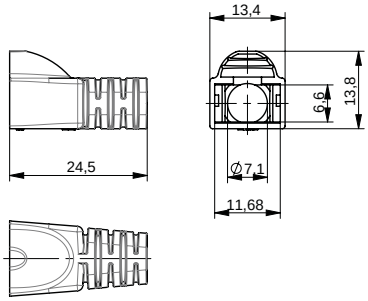




Part No.	Short name	Remarks
100023019	RJ45 plug MP8(8) FS Cat.6_A	shielded with wire presorting; AWG24-AWG27 (stranded and solid); please order cable boot separately Tool 100025804 is required

- cable boot for MP8(8) series connectors
- Suitable for cable outer diameter 6.3 mm
- Latching lever protection protects against accidental unlocking of the plug

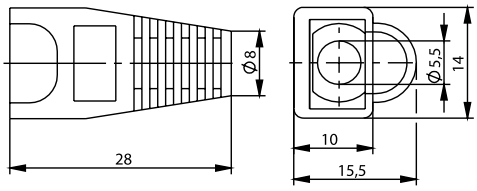




Part No.	Short name	Remarks
100001115	Cable boot for MP8 FS (100023019)	red RAL 3017, Ø 6,3 mm, with latch protection
100001089	Cable boot for MP8 FS (100023019)	grey RAL 7035, Ø 6,3 mm, with latch protection
100001143	Cable boot for MP8 FS (100023019)	black RAL 9011, Ø 6,3 mm, with latch protection
100001136	Cable boot for MP8 FS (100023019)	green RAL 6024, Ø 6,3 mm, with latch protection
100001151	Cable boot for MP8 FS (100023019)	green RAL 6018, Ø 6,3 mm, with latch protection
100001122	Cable boot for MP8 FS (100023019)	blue RAL 5015, Ø 6,3 mm, with latch protection
100001129	Cable boot for MP8 FS (100023019)	yellow RAL 1021, Ø 6,3 mm, with latch protection

- cable boot for MP8(8) series connectors with short wire pre-sorting
- Suitable for cable outer diameter 5.5 mm
- Latching lever protection protects against accidental unlocking of the plug



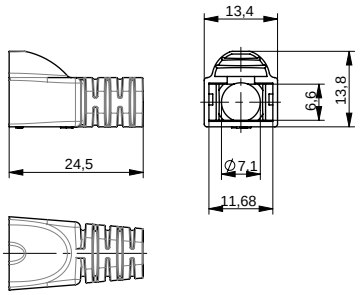


Part No.	Short name	Remarks
100001229	Cable boot for MP8 (100023025)	Cable boot, black, Ø 5.5 mm, with latch protection
100001196	Cable boot for MP8 (100023025)	Cable boot, red RAL 3017, Ø 5.5 mm, with latch protection
100001221	Cable boot for MP8 (100023025)	Cable boot, green RAL 6024, Ø 5.5 mm, with latch protection
100001170	Cable boot for MP8 (100023025)	Cable boot, grey RAL 7035, Ø 5.5 mm, with latch protection
100001214	Cable boot for MP8 (100023025)	Cable boot, yellow RAL 1021, Ø 5.5 mm, with latch protection
100001205	Cable boot for MP8 (100023025)	Cable boot, blue RAL 5015, Ø 5.5 mm, with latch protection

6.1 RJ45 Connectors IP20 shielded

- cable boot for MP8(8) series connextors
- Suitable for cable outer diameter 7.0 mm
- Latching lever protection protects against accidental unlocking of the plug

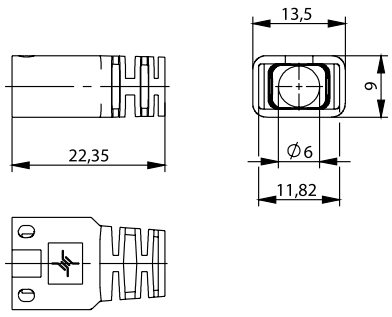




Part No.	Short name	Remarks
100001144	Cable boot for MP8 FS (100023019)	black RAL 9011, Ø 7,0 mm, with latch protection
100001116	Cable boot for MP8 FS (100023019)	red RAL 3017, Ø 7,0 mm, with latch protection
100001137	Cable boot for MP8 FS (100023019)	green RAL 6024, Ø 7,0 mm, with latch protection
100001152	Cable boot for MP8 FS (100023019)	green RAL 6018, Ø 7,0 mm, with latch protection
100001090	Cable boot for MP8 FS (100023019)	grey RAL 7035, Ø 7,0 mm, with latch protection
100001130	Cable boot for MP8 FS (100023019)	yellow RAL 1021, Ø 7,0 mm, with latch protection
100001123	Cable boot for MP8 FS (100023019)	blue RAL 5015, Ø 7,0 mm, with latch protection

- cable boot for MP8(8) series connectors
- Suitable for cable outer diameter 6.0 mm





Part No.	Short name	Remarks
100001166	Cable boot for MP8 FS (100023019)	Cable boot, black RAL 9011, Ø 6.0 mm, without latch protection
100001195	Cable boot for MP8 FS (100023019)	Cable boot, red RAL 3017, Ø 6.0 mm, without latch protection
100001220	Cable boot for MP8 FS (100023019)	Cable boot, green RAL 6024, Ø 6.0 mm, without latch protection
100001213	Cable boot for MP8 FS (100023019)	Cable boot, yellow RAL 1021, Ø 6.0 mm, without latch protection
100001204	Cable boot for MP8 FS (100023019)	Cable boot, blue RAL 5015, Ø 6.0 mm, without latch protection

- Crimp Tool for shielded MP8(8) series connectors FS
- life over 10.000 crimping operations
- Suitable for cable outer diameter 5.5 - 7.3 mm



➨ Part No.	Short name	Type
100025804	Crimp Tool Professional	Crimp Tool Professional (for frequent use) with insert for shielded MP8(8) FS plug (100007451, 100007452); diameter of screen crimp die=5.5 mm; for cable diameter=5.5 - 6.2 mm; life ≥ 10.000 crimping operations

- Test gauge for MP8 series connectors
- Easy to slide over the connector
- Reliable check whether the contacts are within the standard range

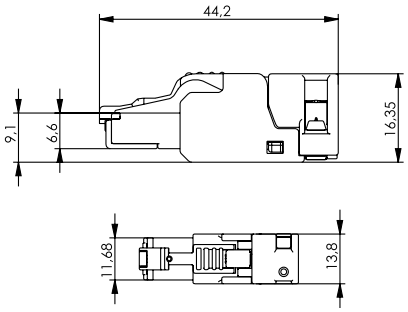


➨ Part No.	Short name	Type
100000300	Check gauge for RJ45 MP8(8) FS plug	contact height minimum dimension
100000301	Check gauge for RJ45 MP8(8) FS plug	contact height maximum dimension

6.2 RJ45 Connectors IP20 unshielded

- Connectors according to IEC 60603-7
- Suitable for 10 Gigabit Ethernet 10GBASE-T according to IEEE 802.3
- Suitable for Power over Ethernet Plus PoE+ according to IEEE 802.3at
- Four-chamber wire manager with colour coding
- For unshielded cabling
- Multi-port capable
- Can be assembled in 60 seconds and without special tools
- Optimised for on-site installation
- IPC piercing contacts suitable for solid and stranded conductors
- Protection class IP20
- Suitable for cable outer diameter 5.5 to 8.5 mm
- Cable strain relief with fine latching action
- With pre-assembled protective cap
- UL-listed





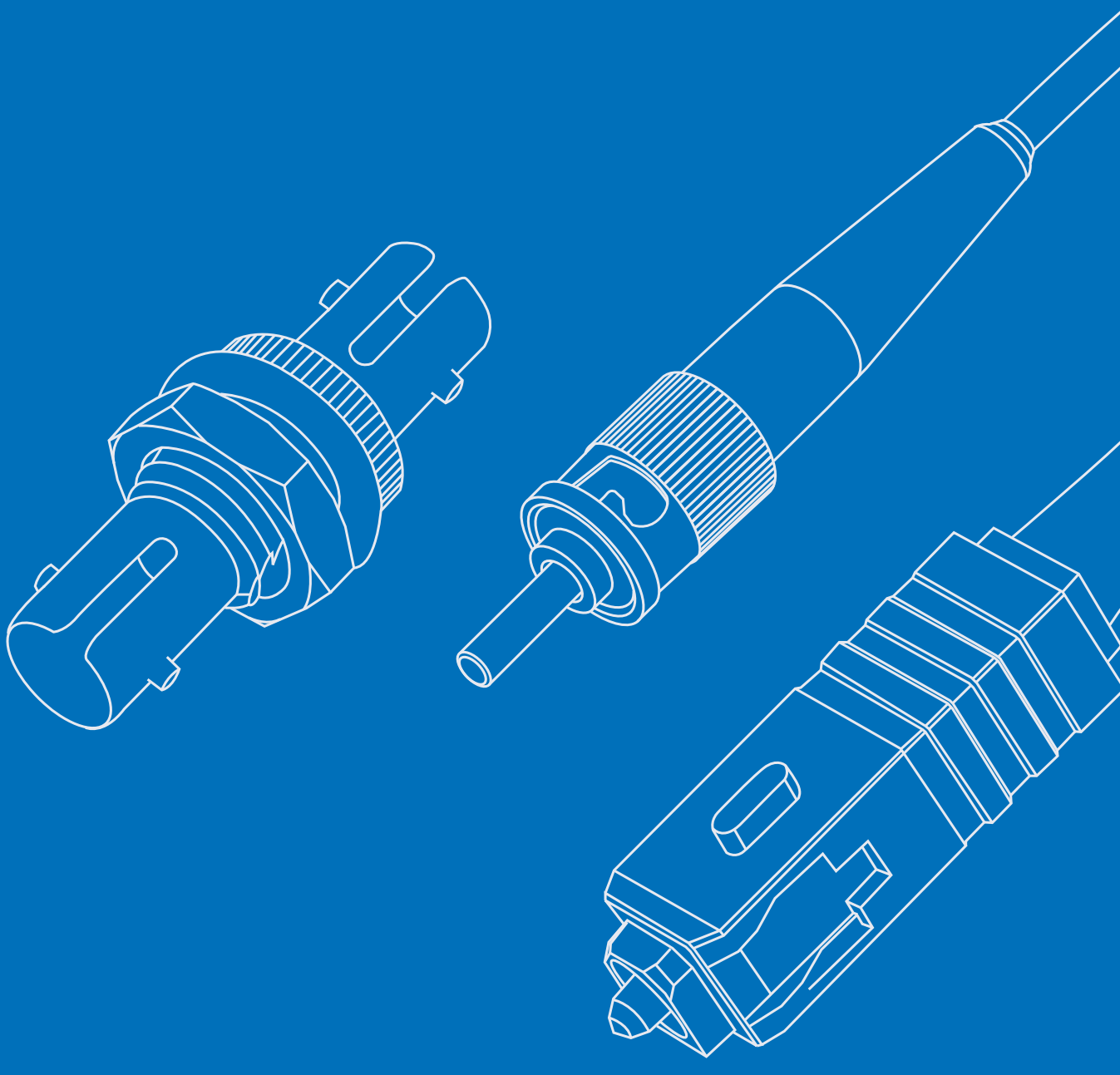
Part No.	Short name	Remarks	Type
100023053	UFP8 T568A Cat.6$_A$	AWG 23/1-22/1, AWG 23/7-22/7, with pre-assembled protection cap	pack of 10
100023051	UFP8 T568A Cat.6$_A$	AWG 24/1-23/1, AWG 27/7-23/7, with pre-assembled protection cap	pack of 10
100023054	UFP8 T568B Cat.6$_A$	AWG 23/1-22/1, AWG 23/7-22/7, with pre-assembled protection cap	pack of 10
100023052	UFP8 T568B Cat.6$_A$	AWG 24/1-23/1, AWG 27/7-23/7, with pre-assembled protection cap	pack of 10
100023057	UFP8 T568A Cat.6$_A$	AWG 23/1-22/1, AWG 23/7-22/7, with pre-assembled protection cap	blister package (10 pcs.)
100023055	UFP8 T568A Cat.6$_A$	AWG 24/1-23/1, AWG 27/7-23/7, with pre-assembled protection cap	blister package (10 pcs.)
100023058	UFP8 T568B Cat.6$_A$	AWG 23/1-22/1, AWG 23/7-22/7, with pre-assembled protection cap	blister package (10 pcs.)
100023056	UFP8 T568B Cat.6$_A$	AWG 24/1-23/1, AWG 27/7-23/7, with pre-assembled protection cap	blister package (10 pcs.)



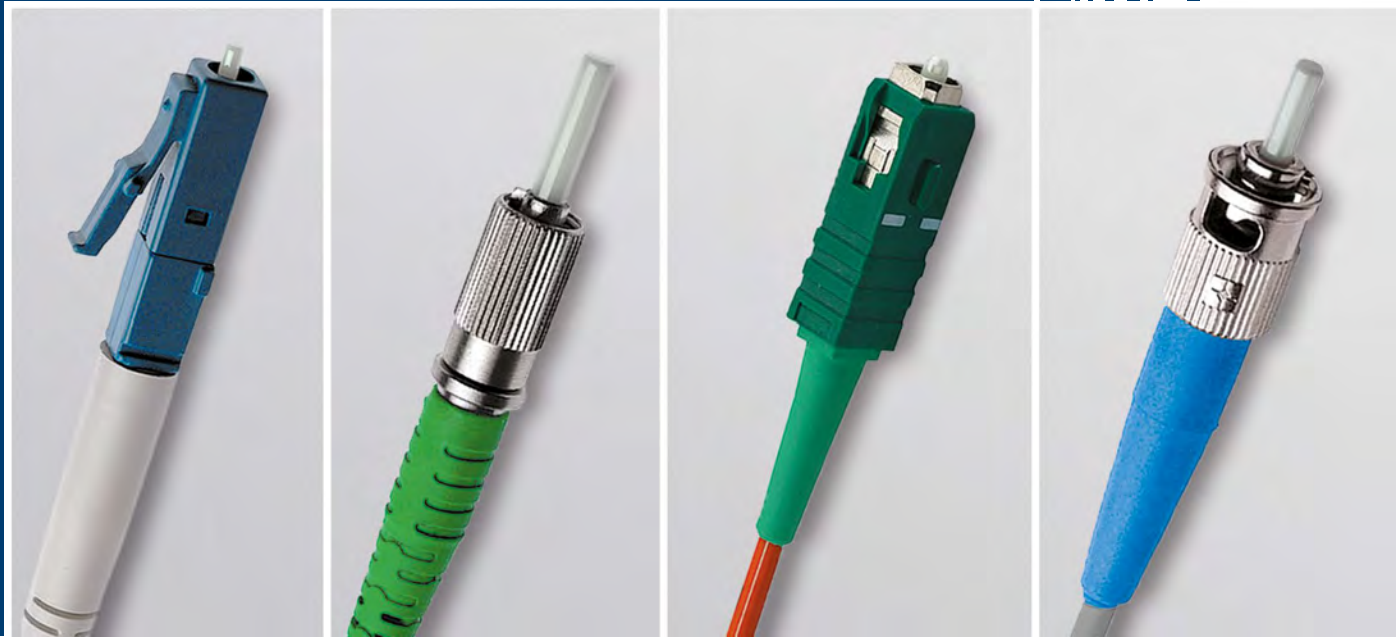
Part No.	Short name	Remarks	Type
100020641	UFP8 Adernmanager T568A	AWG23/1-AWG22/1; AWG23/7-AWG22/7	blister package (30 pcs.)
100020639	UFP8 Adernmanager T568A	AWG24/1-AWG23/1; AWG27/7-AWG23/7	blister package (30 pcs.)
100020642	UFP8 Adernmanager T568B	AWG23/1-AWG22/1; AWG23/7-AWG22/7	blister package (30 pcs.)
100020640	UFP8 Adernmanager T568B	AWG24/1-AWG23/1; AWG27/7-AWG23/7	blister package (30 pcs.)

7

FO CONNECTORS



FO CONNECTORS



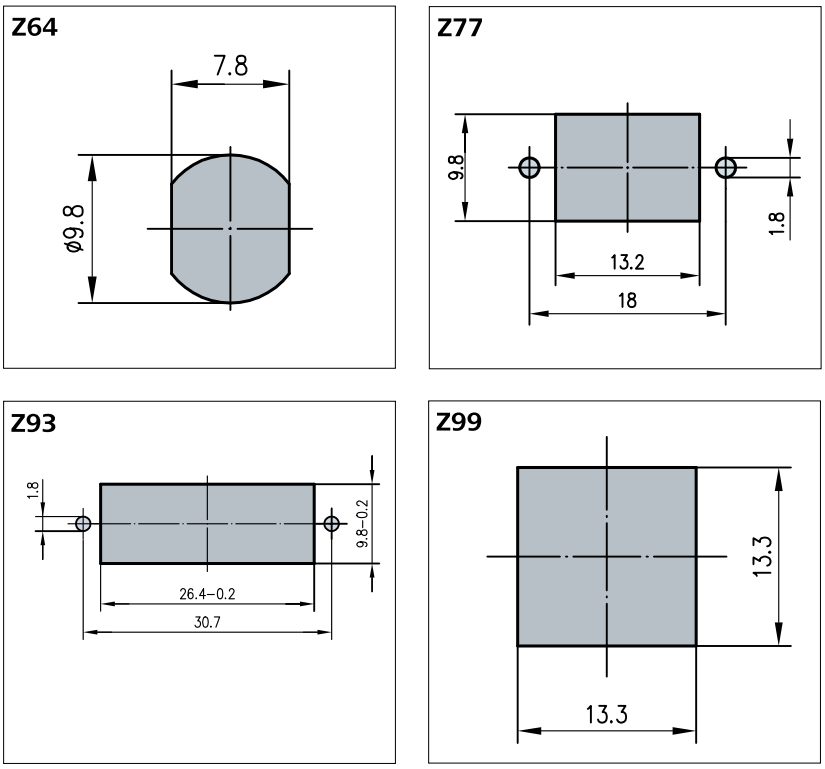
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Durable, precise and reliable: Telegärtner fiber optic connectors with ferrule and coupling sleeve made of zirconia ceramics exceed the specifications of the relevant international standards. The APC types (Angled Physical Contact) with 8° angled polished ferrules offer return loss values of more than 60 dB and meet highest expectations.

Performance Characteristics

- Available for singlemode and multimode fibre
- For 0.9 mm fibers and 3.2 mm cables
- Multimode 50 µm, 62.5 µm, 200 µm and 980 µm
- Singlemode 9 µm

Adaptor Mounting Cut-outs		
Mounting Dimension Code	Width	Height
Z64	7.8 mm	Ø 9.8 mm
Z77	13.2 mm	9.8 mm
Z93	26.4 mm	9.8 mm
Z99	13.3 mm	13.3 mm



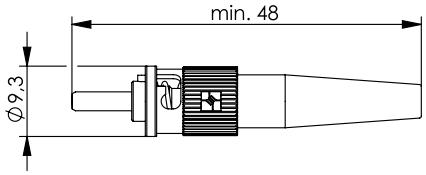
7.1 ST Connectors

	ST Connectors	ST Connectors for POF/PCF
Mechanical Characteristics		
Type	BFOC/2.5 acc. to IEC 61754-2	BFOC/2.5 acc. to IEC 61754-2
Durability (mating cycles)	≥ 1000	≥ 500
Hex crimp size for strain relief	3.4 / 4.52 x 10 mm; 3.65 / 4.52 mm	3.4 / 4.52 x 10 mm (3.25 for cable Ø 2.2 mm)
Strain relief	≥ 100 N	≥ 100 N (Ø 3.6 mm); [3] 60 N (Ø 2.2 mm)
Material: connector ferrule	Zirkonia ceramic	POF: brass nickel-plated PCF: nickel
Material: adaptor split sleeve	Zirkonia ceramic or phosphorous bronze	Phosphorous bronze
Material: coupling housing	-	-
Material: connector body, fixing parts for adaptor	Zinc die-cast, nickel-plated	Zinc die-cast, nickel-plated
Material: crimp sleeve	Copper, nickel-plated	Copper, nickel-plated
Material: cable boot, dust caps	Elastomer, flame retardant, non halogen	Elastomer, flame retardant, non halogen
Colour: connector housing/adaptor housing	Metal	-
Climatic Characteristics		
Operating temperature	-20 °C to +80 °C	-20 °C to +80 °C
Storage temperature	-40 °C to +90 °C	-40 °C to +90 °C
Optical Characteristics		
Insertion loss: Plug (factory assembly)	Multimode: max. 0.4 dB[1] Singlemode: max. 0.5 dB[1]	POF: max. 1.5 dB PCF: max. 1.0 dB
Insertion loss: Adapor (ceramic)	Multi-/Singlemode: max. 0.2 dB	Multimode: max. 0.2 dB
Return loss	Multimode: min. 30 dB[2] Singlemode: min. 40 dB[2]	Multimode: min. 30 dB

[1] Measurement procedure acc. to IEC 61300-3-4
[2] Measurement procedure acc. to IEC 61300-3-6

7.1.1 ST Plugs

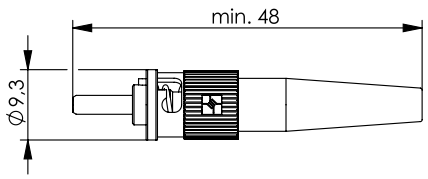




Part No.	Description	Fiber type	Remarks
100007062	ST connector singlemode, ceramic/metal	E9/125	For cable Ø 1.8 - 2.2 mm
100007055	ST connector singlemode, ceramic/metal	E9/125	For cable Ø 2.6 - 3.2 mm
100007053	ST connector multimode, ceramic/metal	G50/125, G62.5/125	For fibers with secondary coating Ø 0.9 mm
100007061	ST connector multimode, ceramic/metal	G50/125, G62.5/125	For cable Ø 1.8 - 2.2 mm
100007054	ST connector multimode, ceramic/metal	G50/125, G62.5/125	For cable Ø 2.6 - 3.2 mm

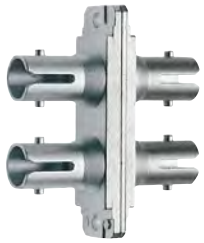
Part No.	Description	Fiber type	Remarks
100007068	ST connector for PCF, metal	PCF, S200/230	For cable Ø 1.8 - 2.2 mm and 2.6 - 3.2 mm
100007057	ST connector for POF, metal	POF, S980/1000	For cables Ø 2.2 mm without strain relief or Ø 3.6 mm with strain relief

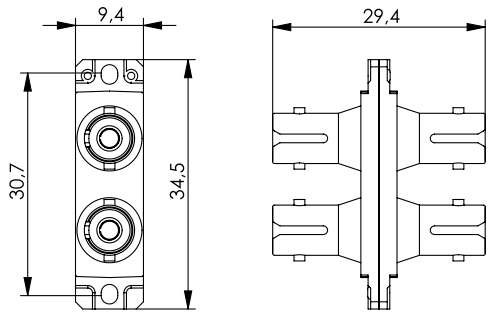




Part No.	Description
100127842	ST Connector Multimode, ceramic/metal

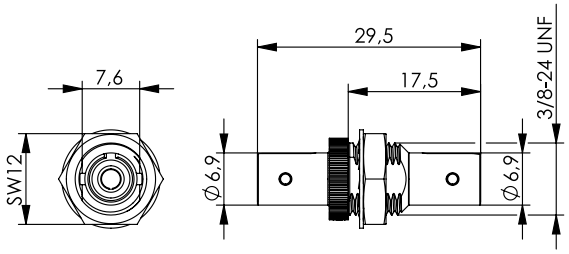
ST Adaptors 7.1.2





Part No.	Description	Installation	Mount. dim.
100007080	ST duplex adaptor, multimode and singlemode, ceramic sleeve, metal housing, incl. tapping screws	Flange mounting	Z93
100007078	ST duplex adaptor, multimode, phosphorous bronze sleeve, plastic housing, incl. tapping screws	Flange mounting	Z93



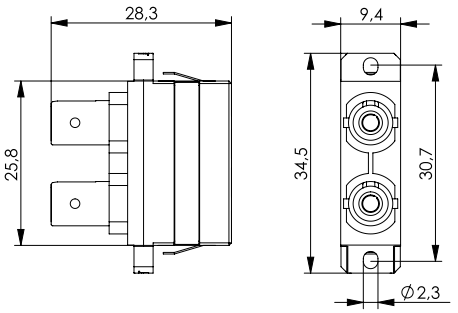


Part No.	Description	Installation	Mount. dim.
100007074	ST adaptor, multimode and singlemode, ceramic sleeve, metal housing	Single hole mounting	Z64
100007075	ST adaptor, multimode, phosphorous bronze sleeve, metal housing	Single hole mounting	Z64

7.1.3 ST/SC Duplex Adaptors

- Available for Singlemode and Multimode
- For 0.9 mm fibers and 3.2 mm cordage
- Multimode 50 µ, 62,5 µ, 200 µ and 980 µSinglemode 9 µ





Part No.	Description	Installation	Mount. dim.	Housing colour
100007264	ST/SC-Duplex Adaptor, Multimode and Singlemode, ceramic sleeve, plastic housing, incl. tapping screws	Snap-in or screw mounting	Z93	blue
100007270	ST/SC-Duplex Adaptor, Multimode, phosphor bronze sleeve, plastic housing, incl. tapping screws	Snap-in or screw mounting	Z93	beige
100007272	ST/SC-Duplex Adaptor, Multimode, phosphor bronze sleeve, plastic housing, incl. tapping screws	Snap-in or screw mounting	Z93	aqua
100007267	ST/SC-Duplex Adaptor, Multimode and Singlemode, ceramic sleeve, metal housing, incl. tapping screws	Snap-in or screw mounting	Z93	metal

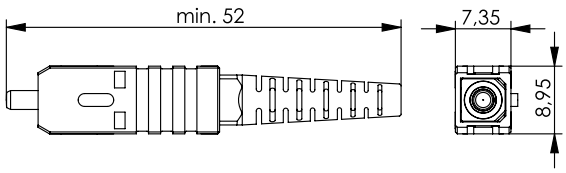
7.2 SC Connectors

	SC Connectors	SC Connectors for POF/PCF
Mechanical Characteristics		
Type	SC acc. to IEC 61754-4	SC acc. to IEC 61754-4
Durability (mating cycles)	≥ 1000	≥ 500
Hex crimp size for strain relief	4.52 x 10 mm	4.52 x 10 mm
Strain relief	≥ 100 N	≥ 100 N
Material: connector ferrule	Zirkonia ceramic	POF: german silver PCF: nickel
Material: adaptor split sleeve	Zirkonia ceramic or phosphorous bronze	Phosphorous bronze
Material: coupling housing	Thermoplastic, flame retardant, non halogen, or zinc die-cast, nickel-plated	-
Material: cable boot, dust caps	Thermoplastic, flame retardant, non halogen	Thermoplastic, flame retardant, non halogen
Colour: connector housing/adaptor housing	Multimode: beige, blue, aqua, black, violet; Singlemode: blue; Singlemode APC: green	POF: yellow PCF: red
Climatic Characteristics		
Operating temperature	-20 °C to +80 °C	-20 °C to +80 °C
Storage temperature	-40 °C to +90 °C	-40 °C to +90 °C
Optical Characteristics		
Insertion loss: Plug (factory assembly)	Multimode: max. 0.4 dB[1] Singlemode: max. 0.5 dB[1]	POF: 1.5 dB PCF: 1.0 dB
Insertion loss: Adaptor (ceramic)	Multi-/Singlemode: max. 0.2 dB[1] Singlemode APC: max. 0.2 dB[1]	-

[1] Measurement procedure acc. to IEC 61300-3-4
[2] Measurement procedure acc. to IEC 61300-3-6

SC Plugs 7.2.1



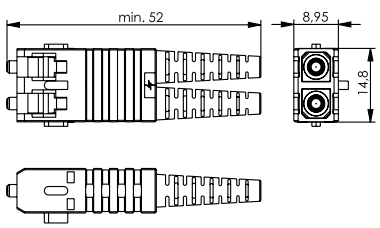


Part No.	Description	Fiber type	Remarks	Housing colour
100007194	SC Connector Multimode, ceramic	G50/125, G62,5/125	for cable Ø 1,8 - 2,2 mm	beige
100007191	SC Connector Multimode, ceramic	G50/125, G62,5/125	for cable Ø 2,6 - 3,2 mm	beige
100007186	SC Connector Multimode, ceramic	G50/125, G62,5/125	for cable Ø 1,8 - 2,2 mm	blue
100007182	SC Connector Multimode, ceramic	G50/125, G62,5/125	for cable Ø 2,6 - 3,2 mm	blue
100007196	SC Connector Multimode, ceramic	G50/125 OM3	for cable Ø 1,8 - 2,2 mm	aqua
100007195	SC Connector Multimode, ceramic	G50/125 OM3	for cable Ø 2,6 - 3,2 mm	aqua
100007200	SC Connector Multimode, ceramic	G50/125 OM4	for cable Ø 1,8 - 2,2 mm	black
100007198	SC Connector Multimode, ceramic	G50/125 OM4	for cable Ø 2,6 - 3,2 mm	black
100007187	SC Connector Singlemode, ceramic	E9/125	for cable Ø 1,8 - 2,2 mm	blue
100007184	SC Connector Singlemode, ceramic	E9/125	for cable Ø 2,6 - 3,2 mm	blue
100007584	STX IP20 SC Connector	POF, S980/1000	for cable Ø 2,2 mm	yellow
100007598	STX IP20 SC Connector screw type	POF, S980/1000	for cable Ø 2,2 mm	yellow
100007591	STX IP20 SC Connector	PCF, S200/230	for cable Ø 2,6 - 3,2 mm	red



Part No.	Description	Fiber type	Remarks	Housing colour
100007192	SC Connector Multimode, ceramic	G50/125, G62,5/125	for fibers with secondary coating Ø 0.9 mm	beige
100007183	SC Connector Multimode, ceramic	G50/125, G62,5/125	for fibers with secondary coating Ø 0.9 mm	blue
100007197	SC Connector Multimode, ceramic	G50/125 OM3	for fibers with secondary coating Ø 0.9 mm	aqua

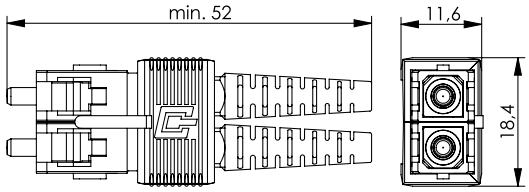




Part No.	Description	Fiber type	Remarks	Housing colour
100007185	SC Connector Singlemode, ceramic	E9/125	for fibers with secondary coating Ø 0.9 mm	blue

7.2.1 SC Plugs





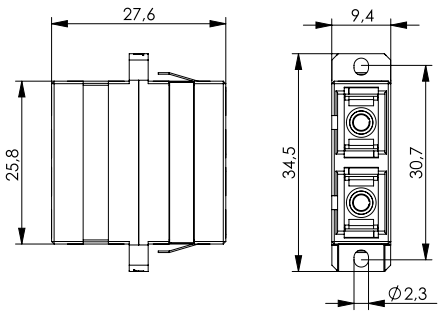
Part No.	Description	Fiber type	Remarks	Housing colour
100007590	STX IP20 SC-RJ Connector	POF, S980/1000	for cable Ø 2,2 mm	yellow
100007588	STX IP20 SC-RJ Connector	G50/125, G62,5/125	for cable Ø 2,6 - 3,2 mm	beige



Part No.	Description	Remarks	Colour
100000886	Clamp for SC connector (spacing acc. to SC Duplex)	packaging unit 10 pcs.	aqua
100000882	Clamp for SC connector (spacing acc. to SC Duplex)	packaging unit 10 pcs.	black
100000883	Clamp for SC connector (spacing acc. to SC Duplex)	packaging unit 10 pcs.	yellow
100000881	Clamp for SC connector (spacing acc. to SC Duplex)	packaging unit 10 pcs.	blue
100000880	Clamp for SC connector (spacing acc. to SC Duplex)	packaging unit 10 pcs.	beige

7.2.2 SC Adaptors





Part No.	Description	Installation	Mount. dim.	Housing colour
100007238	SC Duplex Adaptor, Multimode and Singlemode, Ceramic sleeve, Plastic housing, incl. tapping screws	Snap-in or screw mounting	Z93	blue
100007242	SC Duplex Adaptor, Multimode and Singlemode, Ceramic sleeve, metal housing, incl. tapping screws	Snap-in or screw mounting	Z93	metal
100007254	SC Duplex adaptor, multimode, ceramic sleeve, plastic housing, incl.tapping screws	Snap-in or screw mounting	Z93	black

➨ Part No.	Description	Installation	Mount. dim.	Housing colour
100007247	SC Duplex adaptor, multimode, ceramic sleeve, plastic housing, incl.tapping screws	Snap-in or screw mounting	Z93	beige
100007251	SC Duplex adaptor, multimode, ceramic sleeve, plastic housing, incl.tapping screws	Snap-in or screw mounting	Z93	aqua
100007257	SC Duplex adaptor, multimode, ceramic sleeve, plastic housing, incl.tapping screws	Snap-in or screw mounting	Z93	violet
100007244	SC/APC Duplex Adaptor, Singlemode, Ceramic sleeve, plastic housing, incl. tapping screws	Snap-in or screw mounting	Z93	green



➨ Part No.	Description	Housing colour
100000567	protection flap, self-closing, for SC Duplex adaptor	blue

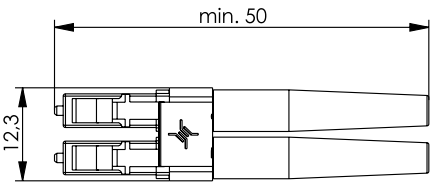
LC Connectors 7.3

	LC Connectors
Mechanical Characteristics	
Type	Connector type LC acc. to IEC 61754-20
Durability (mating cycles)	≥ 1000
Hex crimp size for strain relief	3.24 x 10 mm
Strain relief	≥ 100 N
Material: connector ferrule	Zirkonia ceramic
Material: adaptor split sleeve	Zirkonia ceramic
Material: plug housing	Thermoplastic, flame retardant, non halogen
Material: cable boot, dust caps	Thermoplastic, flame retardant, non halogen
Colour: connector housing/adaptor housing	Multimode: beige, blue, aqua, black, violet; Singlemode: blue; Singlemode APC: green
Climatic Characteristics	
Operating temperature	-20 °C to +80 °C
Storage temperature	-40 °C to +90 °C
Optical Characteristics	
Insertion loss: Plug (factory assembly)	Multimode: max. 0.4 dB[1] Singlemode/Singlemode APC: max. 0.5 dB[1]
Insertion loss: Adapor (ceramic)	Multi-/Singlemode: max. 0.2 dB[1] Singlemode APC: max. 0.2 dB[1]

[1] Measurement procedure acc. to IEC 61300-3-4
[2] Measurement procedure acc. to IEC 61300-3-6

7.3.1 LC Plugs

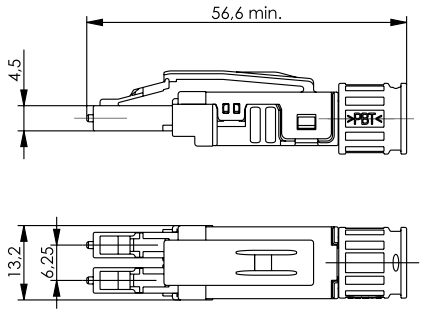




Part No.	Description	Fiber type	Remarks	Housing colour
100007096	LC Duplex Connector, Multimode, ceramic	G50/125; G62,5/125	for cable Ø 1,8 - 2,2 mm	beige
100007101	LC Duplex Connector, Multimode, ceramic	G50/125; G62,5/125	for cable Ø 2,6 - 3,2 mm	beige
100007105	LC Duplex Connector, Multimode, ceramic	G50/125 OM3	for cable Ø 1,8 - 2,2 mm	aqua
100007104	LC Duplex Connector, Multimode, ceramic	G50/125 OM3	for cable Ø 2,6 - 3,2 mm	aqua
100007108	LC Duplex Connector, Multimode, ceramic	G50/125 OM4	for cable Ø 2,6 - 3,2 mm	black
100007109	LC Duplex Connector, Multimode, ceramic	G50/125 OM4	for cable Ø 1,8 - 2,2 mm	black
100007121	LC Duplex connector, multi mode, ceramics	G50/125 OM4	for cable Ø 1.8 - 2.2 mm	Violet
100007122	7-16 Termination load f	G50/125 OM4	for cable Ø 2.6 - 3.2 mm	Violet
100007095	LC Duplex Connector, Singlemode, ceramic	E9/125	for cable Ø 1,8 - 2,2 mm	blue
100007100	LC Duplex Connector, Singlemode, ceramic	E9/125	for cable Ø 2,6 - 3,2 mm	blue

7.3.2 LC Plug EasyGrip

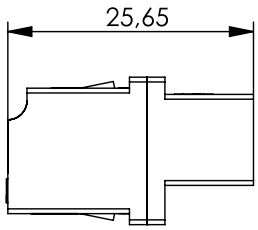


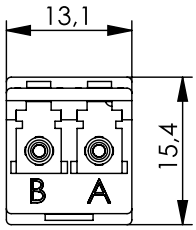


Part No.	Description	Fiber type	Remarks	Housing colour
100007112	LC duplex plug EasyGrip	E9/125	for cable Ø 1,8 - 2,2 mm and 2,6 - 3,2 mm	blue
100007113	LC/APC Duplex plug EasyGrip	E9/125	für cable Ø 1.8 - 2.2 mm and 2.6 - 3.2 mm	green
100007114	LC duplex plug EasyGrip	G50/125; G62,5/125	für cable Ø 1,8 - 2,2 mm and 2,6 - 3,2 mm	beige
100007115	LC duplex plug EasyGrip	G50/125 OM3	für cable Ø 1,8 - 2,2 mm and 2,6 - 3,2 mm	aqua
100007116	LC duplex plug EasyGrip	G50/125 OM4	für cable Ø 1,8 - 2,2 mm and 2,6 - 3,2 mm	black
100007123	LC duplex plug EasyGrip	E9/125	für cable Ø 1,8 - 2,2 mm and 2,6 - 3,2 mm	violet

LC Adaptors 7.3.3

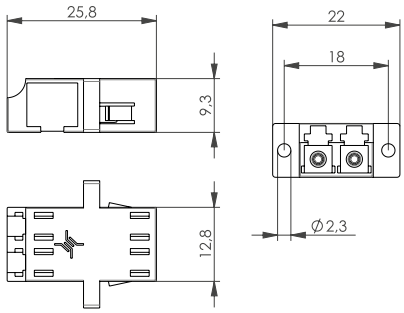






Part No.	Description	Installation	Mount. dim.	Housing colour
100007146	LC/APC Duplex adaptor, singlemode, ceramic sleeve, plastic housing	Snap-in mounting	Z99	green
100007143	LC Duplex adaptor, Multimode and Singlemode, ceramic sleeve, plastic housing	Snap-in mounting	Z99	blue
100007145	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing	Snap-in mounting	Z99	beige
100007151	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing	Snap-in mounting	Z99	aqua
100007166	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing	Snap-in mounting	Z99	violet
100007179	LC Duplex adaptor, Multimode and Singlemode, ceramic sleeve, plastic housing, limegreen	Snap-in mounting	Z99	limegreen

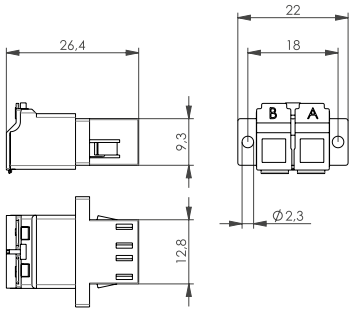




Part No.	Description	Installation	Mount. dim.	Housing colour
100007155	LC/APC Duplex adaptor, singlemode, ceramic sleeve, plastic housing, green	Snap-in or screw mounting	Z77	green
100007147	LC Duplex adaptor, Multimode and Singlemode, ceramic sleeve, plastic housing, blue	Snap-in or screw mounting	Z77	blue
100007150	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing, beige	Snap-in or screw mounting	Z77	beige
100007158	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing, aqua	Snap-in or screw mounting	Z77	aqua
100007162	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing, black	Snap-in or screw mounting	Z77	black
100007167	LC-Duplex adaptor, Multimode, ceramic sleeve, plastic housing, violet	Snap-in or screw mounting	Z77	violet
100033263	LC Duplex Kupplung, Multimode, Keramikhülse, Kunststoffgehäuse, lindgrün	Einschnapp- oder Schraubmontage	Z77	lindgrün

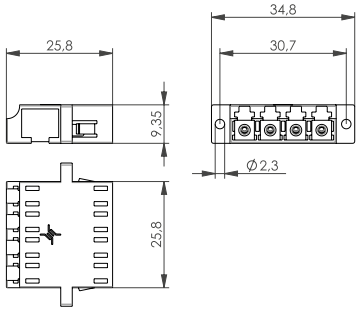
7.3.3 LC Adaptors





Part No.	Description	Installation	Mount. dim.	Housing colour
100007164	LC/APC Duplex adaptor, singlemode, ceramic sleeve, plastic housing with dust and laser protection cover	Snap-in or screw mounting	Z77	green

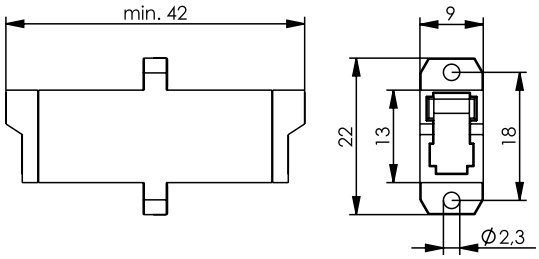




Part No.	Description	Installation	Mount. dim.	Housing colour
100007159	LC/APC Quad adaptor, singlemode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	green
100007153	LC Quad Adaptor, Multimode and Singlemode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	blue
100007152	LC Quad adaptor, multimode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	beige
100007154	LC Quad adaptor, multimode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	aqua
100007161	LC Quad adaptor, multimode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	black
100007165	LC Quad adaptor, multimode, ceramic sleeve, plastic housing	Snap-in or screw mounting	Z93	violet

E2000 Adaptors 7.4





Part No.	Description	Installation	Mount. dim.	Housing colour
100007090	E2000/APC adaptor, Singlemode, ceramic sleeve, plastic housing, incl. screws M2	screw mounting	Z66	green

FO Adaptors between Series 7.5

SC Plugs 7.5.1



Part No.	Description	Remarks	Fiber type	Housing colour
100007224	For cables with Ø 2000 µm	FFP SC connector, OM3, 2000	G50/125	aqua
100007221	For fibers with Ø 250 µm or Ø 900 µm	FFP SC connector, OM3, 250/900	G50/125	aqua
100007227	For cables with Ø 3000 µm	FFP SC connector, OM3, 3000	G50/125	aqua
100007222	For cables with Ø 2000 µm	FFP SC connector, OS2/APC, 2000	E9/125	green
100007219	For fibers with Ø 250 µm or Ø 900 µm	FFP SC connector, OS2/APC, 250/900	E9/125	green
100007225	For cables with Ø 3000 µm	FFP SC connector, OS2/APC, 3000	E9/125	green
100007223	For cables with Ø 2000 µm	FFP SC connector, OS2/PC, 2000	E9/125	blue
100007220	For fibers with Ø 250 µm or Ø 900 µm	FFP SC connector, OS2/PC, 250/900	E9/125	blue
100007226	For cables with Ø 3000 µm	FFP SC connector, OS2/PC, 3000	E9/125	blue

7.5.1

7.5.1 SC Plugs



Part No.	Description	Fiber type	Remarks
100007233	For cables with Ø 2000 µm	FFP set SC, OM3, 2000 with assembly guide	G50/125
100007230	For fibers with Ø 250 µm or Ø 900 µm	FFP set SC, OM3, 250/900 with assembly guide	G50/125
100007236	For cables with Ø 3000 µm	FFP set SC, OM3, 3000 with assembly guide	G50/125
100007231	For cables with Ø 2000 µm	FFP set SC, OS2/APC, 2000 with assembly guide	E9/125
100007228	For fibers with Ø 250 µm or Ø 900 µm	FFP set SC, OS2/APC, 250/900 with assembly guide	E9/125
100007234	For cables with Ø 3000 µm	FFP set SC, OS2/APC, 3000 with assembly guide	E9/125
100007232	For cables with Ø 2000 µm	FFP set SC, OS2/PC, 2000 with assembly guide	E9/125
100007229	For fibers with Ø 250 µm or Ø 900 µm	FFP set SC, OS2/PC, 250/900 with assembly guide	E9/125
100007235	For cables with Ø 3000 µm	FFP set SC, OS2/PC, 3000 with assembly guide	E9/125

7.5.2 LC Plgugs

For self-assembly in the field



Part No.	Description	Fiber type	Remarks
100007126	FFP LC connector, OS2/PC, 250/900	E9/125	For fibers with Ø 250 µm or Ø 900 µm
100007125	FFP LC connector, OS2/APC, 250/900	E9/125	For fibers with Ø 250 µm or Ø 900 µm
100007129	FFP LC connector, OS2/APC, 2000	E9/125	For cables with Ø 2000 µm
100007128	FFP LC connector, OS2/APC, 2000	E9/125	For cables with Ø 2000 µm
100007131	FFP LC connector, OS2/APC, 3000	E9/125	For cables with Ø 3000 µm
100007132	FFP LC connector, OS2/PC, 3000	E9/125	For cables with Ø 3000 µm
100007130	FFP LC connector, OM3, 2000	G50/125	For cables with Ø 2000 µm
100007133	FFP LC connector, OM3, 3000	G50/125	For cables with Ø 3000 µm



Part No.	Description	Fiber type	Remarks
100007139	FFP set LC, OM3, 2000 with assembly guide	G50/125	For cables with Ø 2000 µm
100007136	FFP set LC, OM3, 250/900 with assembly guide	G50/125	For fibers with Ø 250 µm or Ø 900 µm
100007142	FFP set LC, OM3,3000 with assembly guide	G50/125	For cables with Ø 3000 µm
100007137	FFP set LC, OS2/APC, 2000 with assembly guide	E9/125	For cables with Ø 2000 µm
100007134	FFP set LC, OS2/APC, 250/900 with assembly guide	E9/125	For fibers with Ø 250 µm or Ø 900 µm
100007140	FFP set LC, OS2/APC,3000 with assembly guide	E9/125	For cables with Ø 3000 µm
100007138	FFP set LC, OS2/PC, 2000 with assembly guide	G50/125	For cables with Ø 2000 µm
100007135	FFP set LC, OS2/PC, 250/900 with assembly guide	G50/125	For fibers with Ø 250 µm or Ø 900 µm
100007141	FFP set LC, OS2/PC,3000 with assembly guide	G50/125	For cables with Ø 3000 µm

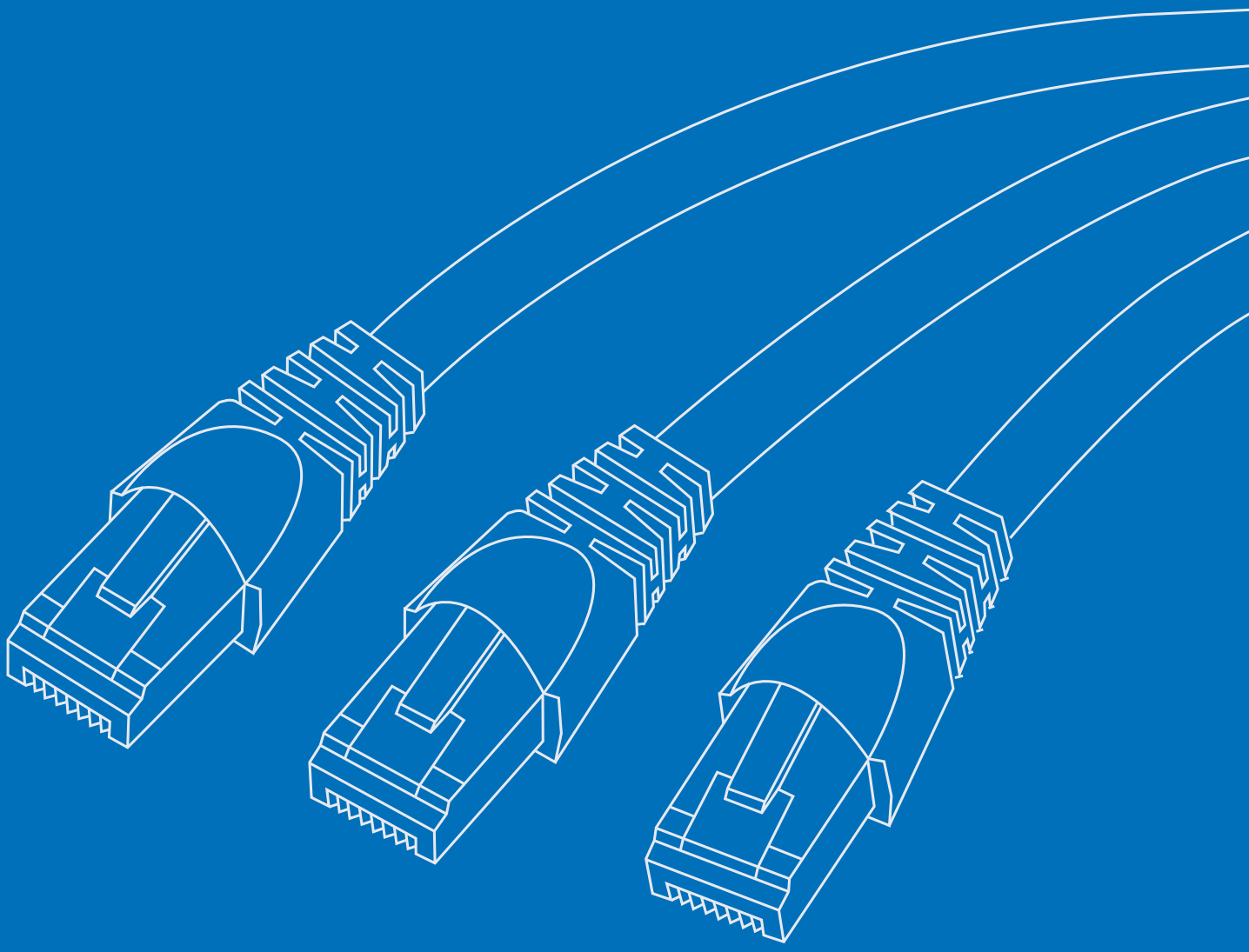
Accessories 7.5.3



Part No.	Description	Remarks
100025941	Tool-Kit Advanced with premium cleaver	Content: Protective soft case with many pockets, Fiber disposal unit, Cleaning wipes, Premium cleaver, Visual fault locator, Cleaning pen, Kevlar scissors, Fiber marking pen
100025942	Tool-Kit Essential with standard cleaver	Content: Protective soft case with many pockets, Fiber disposal unit, Cleaning wipes, Standard cleaver, Visual fault locator, Cleaning pen, Kevlar scissors, Fiber marking pen
100025943	Tool-Kit Basic without cleaver	Content: Protective soft case with many pockets, Fiber disposal unit, Cleaning wipes, Visual fault locator, Cleaning pen, Kevlar scissors, Fiber marking pen

8

RJ45 PATCH CORDS



RJ45 PATCH CORDS



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Performance Characteristics

- proven plug quality for durable, high-quality connections
- SF/UTP Cat.5 patch cords with PUR or PVC jacket available
- S/FTP Cat.6A patch cords with PUR or PVC jacket available
- extended temperature range for use in harsh environment
- wide range of length from 1 m to 15 m
- shielded RJ45 Cat.6_A plugs acc. to IEC 60603-7-51
- the industrial wiring system is designed for meeting future requirements for 8-way terminating and supports Gigabit Ethernet with high power reserves.

Industrie Patch Cords	IE-Patchkabel S/FTP Cat.7 PVC	IE-Patchkabel S/FTP Cat.7 PUR	IE-Patchkabel SF/UTP Cat.5 PVC	IE-Patchkabel SF/UTP Cat.5 PUR
Mechanical Characteristics				
Durability (mating cycles)	≥ 750	≥ 750	≥ 750	≥ 750
Cable structure	LI02YSCY PVC 4x2xAWG 27/7 PiMF	LI02YSCY PUR 4x2xAWG 27/7 PiMF	LI2Y(ST)CY PVC 4x2xAWG 26/7	LI2Y(ST)C11Y PUR 4x2xAWG 26/7
Stranded wire	AWG 27 (7 x 0.14 mm)	AWG 27 (7 x 0.14 mm)	AWG 26 (7 x 0.16 mm)	AWG 26 (7 x 0.16 mm)
Insulation	Foam PE, Ø 1.04 mm	Foam PE, Ø 1.04 mm	PE, Ø 0.95 mm	PE, Ø 0.95 mm
Pair shielding	Al-foil, outside conducting		-	-
Overall shielding	tin plated copper braid		aluminum foil, outer conductive and tinned copper braid	
Outer jacket	Ø 6.2 ±0.2 mm	Ø 6.2 ±0.2 mm	Ø 5.6 ±0.2 mm	Ø 5.8 ±0.2 mm
Colour	RAL 6018	RAL 6018	RAL 6018	RAL 6018
Climatic Characteristics				
UL	-	E344985	-	E344985
flame-retardant test	IEC 60332-1	IEC 60332-1	IEC 60332-1	IEC 60332-1
Operating temperature in °C	-40 °C to +75 °C	-40 °C zo +85 °C	-40 °C to +75 °C	-40 °C to +85 °C

Control cabinet cabling	Patch Cords Shielded 500 MHz/ Cat.6_A S/FTP LSZH	Mini Patch Cords Shielded 500 MHz/ Cat.6_A S/FTP LSZH	Patch Cords Shielded 100 MHz/ Cat.5 F/UTP LSZH
Mechanical Characteristics			
Cable structure	Li02YSCH 4x2xAWG27/7 PiMF	Li02YSCH 4x2xAWG30/7	Li2Y(ST)H 4x2xAWG26/7
Stranded wire	AWG27 (7/0.14 mm)	AWG30 (7/0.1 mm)	AWG26 (7/0.16mm)
Insulation	PE, Ø 1.02 mm (± 0.05 mm)	PE, Ø 0.73 (± 0.05 mm)	PE, Ø 0.92 mm (± 0.05 mm)
Pair shielding	Al-foil, conductive side facing outwards	Aluminum coated plastic composite film	-
Overall shielding	Tin plated copper braid	Tin plated copper braid	-
Outer jacket	5.8 mm (± 0.2 mm)	4.9 mm (± 0.3 mm)	5.5 mm (± 0.2 mm)
Climatic Characteristics			
Flame-retardant test	IEC 60332-1	IEC 60332-1	IEC 60332-1
UL listing	E244889	E244889	-
Operating temperature	-40 °C to +75 °C	-40 °C to +75 °C	-20 °C to +60 °C
Electrical Characteristics			
Current carrying capacity at 50 °C	1 A	1 A	1 A
PoE+ acc. to IEEE 802.3at	furfilled	furfilled	furfilled
Transmission Characteristics			
10 Gigabit Ethernet acc. to IEEE 802.3an	furfilled	furfilled	-
Gigabit Ethernet acc. to IEEE 802.3	-	-	furfilled

Copper and fiber optic cables are laid in a wide variety of applications, which requires different jacket materials. The most important ones in industrial applications include LSZH, PVC and PUR.

LSZH (low smoke zero halogens)
LSZH materials are typically based on polyolefin plastics. As they do not contain any halogens (fluorine, chlorine, bromine, iodine), LSZH plastics do not release any of these substances as corrosive gas in the event of a fire. LSZH materials are suitable for indoor use and, in the case of universal cables, also for outdoor use, but laying them directly in the ground is not recommended due to the persistent moisture there. They are more flammable than PVC, but in the event of a fire they emit only a little thin and light-colored smoke, so that escape routes are usually easy to recognize even in the event of a fire. Cables with LSZH sheaths can be processed almost as well as cables with PVC sheaths, but they are not resistant to water, oils and lubricants. They can typically be operated at temperatures from -30 °C to + 60 °C.

PVC (polyvinyl chloride)
PVC is a comparatively inexpensive plastic. It is suitable for indoor use, but not for outdoor use. PVC is more abrasion-resistant and less flammable than halogen-free plastics (LSZH). In the event of a fire, however, PVC emits dense, dark smoke and releases toxic chlorine gas, which reacts with water to form hydrochloric acid and can thus corrode the respiratory tract and damage the fabric of the building. Cables with PVC sheaths can be stripped very quickly and easily and have limited resistance to oils and lubricants. They can typically be operated at temperatures from -40 °C to + 75 °C.

PUR (polyurethane)
PUR is very resistant to mechanical loads. It is tensile, tear-resistant, abrasion-resistant and tough against impacts and indentations. PUR is flexible, can often be bent in different directions without being damaged and remains flexible even when cold. At the same time, it is resistant to moisture and mineral oils. PUR can contain very small amounts of halogens, but is considered to be practically halogen-free. Cables with a PUR sheath can typically be operated at temperatures from -40 °C to + 85 °C. They are very popular in industrial applications and, depending on the plastic compound, are also suitable for outdoor use.

	LSZH	PVC	PUR
Tensile strength	0	0	+
Oil resistance	-	0	+
Water absorption	-	+	+
Capillarity	+	+	+
Bending test	-	+	+
UV resistance	-	+	+

Length tolerances

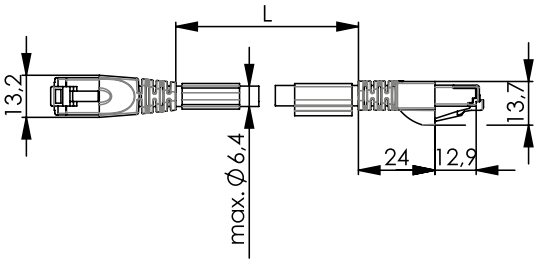
Length (mm)	< 500	> 500	> 1.500	> 2.500	> 5.000	> 8.000	> 15.000	> 20.000	> 50.000	> 10.0000
Tolerance (mm)	± 10	± 20	± 25	± 40	± 60	± 100	± 200	± 300	± 500	± 500

Industry Patch Cords 8.1

Patch Cord S/FTP Cat.6_A 4x2xAWG 26/7 (PUR) 8.1.1

- Plug connector MP8
- black PUR grommet
- with cable marking sleeve



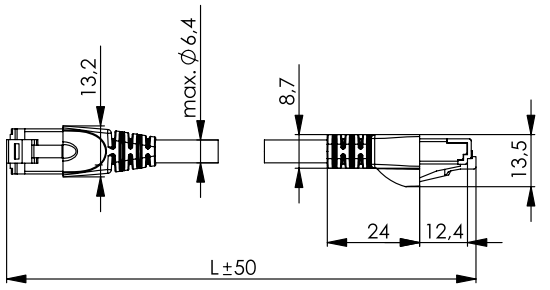


Length	Green
Part No.	
0.25 m	100017308
0.5 m	100017307
1 m	100017320
2 m	100017325
3 m	100017336
5 m	100017343
7.5 m	100017350
10 m	100017359
15 m	100009141

Patch Cord S/FTP Cat.6_A 4x2xAWG 27/7 (PUR) 8.1.2

- Plug connector MP8
- green PUR grommet

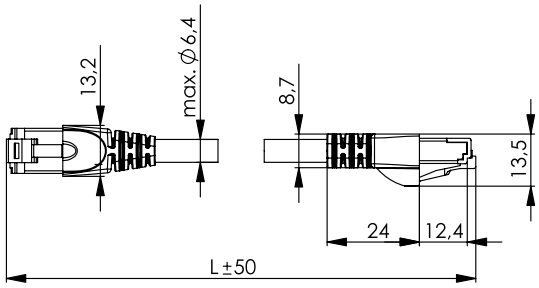




Length	Green
Part No.	
0.25 m	100008111
0.5 m	100008047
1 m	100008002
2 m	100008284
3 m	100008484
5 m	100008663
7.5 m	100008838
10 m	100008994
15 m	100009141

8.1.3 Patch Cord S/FTP Cat.6_A 4x2xAWG 27/7 (PVC)

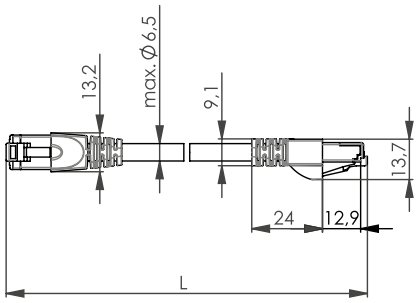




Length	Green
Part No.	
1 m	100008001
2 m	100008283
3 m	100008483
5 m	100008662
7.5 m	100008837
10 m	100008993
15 m	100009140

8.1.4 Patch Cord S/FTP Cat.6_A 4x2xAWG 26/7 (PE)

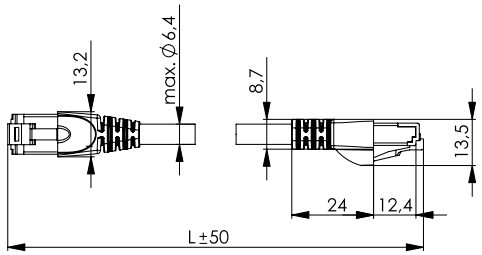




Length	Black
Part No.	
0.5 m	100008101
1 m	100008102
2 m	100008352
3 m	100008544
5 m	100008749
7.5 m	100008919
10 m	100009061

Patch Cord SF/UTP Cat.5 4x2xAWG26/7 (PUR 8.1.5

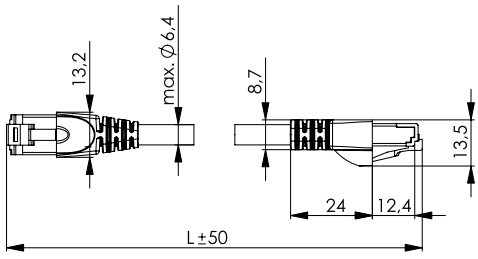




Length	Green
Part No.	
0.25 m	100008107
0.5 m	100008108
1 m	100008000
2 m	100008282
3 m	100008481
5 m	100008661
7.5 m	100008840
10 m	100008996
15 m	100009143

Patch Cord SF/UTP Cat.5 4x2xAWG26/7 (PVC) 8.1.6

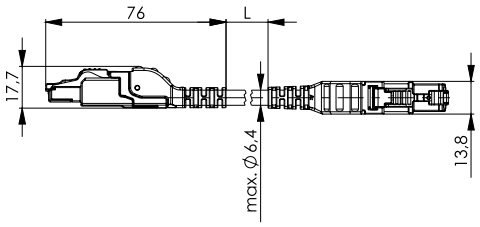




Length	Green
Part No.	
1 m	100007998
2 m	100008281
3 m	100008480
5 m	100008660
7.5 m	100008839
10 m	100008995
15 m	100009142

8.1.7 Patch Cord SF/UTP Cat.5 2x2xAWG22/7 (PUR) MFP8-MFP8



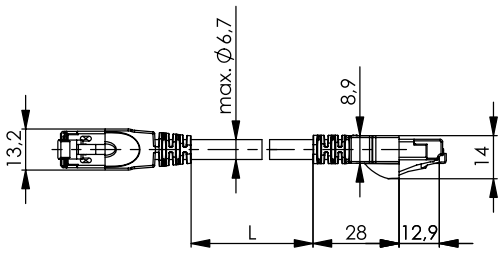


Length	Green
Part No.	
1 m	100017301
2 m	100017314
3 m	100017323
5 m	100017329
7.5 m	100017338
10 m	100017345
15 m	100017352
20 m	100017353
25 m	100017354

8.1.8 Patch Cord SF/UTP Cat.5 2x2xAWG22/7 (PUR) MP84C-MP84C

- Plug connector MP8
- black PUR grommet
- Profinet patch cord
- 4 wire





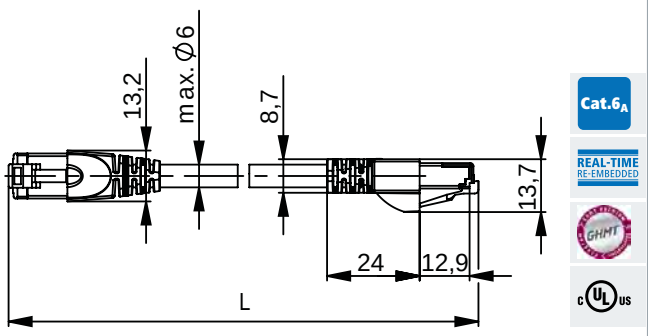
Length	Green
Part No.	
1 m	100017304
2 m	100017317
3 m	100017324
5 m	100017332
7.5 m	100017341
10 m	100017348
15 m	100017356
20 m	100017357
25 m	100017358

Control cabinet cabling 8.2

Patch Cord S/FTP Cat.6_A 4x2xAWG27/7 (LSZH) 8.2.1

Cat.6_A - Wiring 1:1 - S/FTP (LSZH)



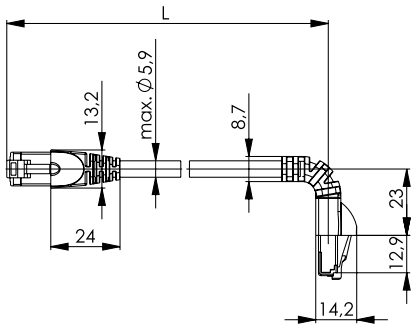


Length	Grey	Yellow	Green	Red	Black	Purple	White	Blue
Part No.								
0.25 m	100008028	100008032	100008029	100008030	100008033	100008035	100008034	
0.5 m	100007964	100007968	100007965	100007966	100007969	100008036	100007990	100007967
1 m	100007973	100007977	100007974	100007975	100007978	100008027	100007991	100007976
1.5 m	100008268	100008269		100008297				
2 m	100008262	100008266	100008263	100008264	100008267	100008301	100008274	100008265
2.5 m	100008469	100008507		100008496				
3 m	100008462	100008466	100008463	100008464	100008467	100008499	100008474	100008465
3.5 m	100008650	100008704		100008681				
4 m	100008657	100008705		100008665				
4.5 m	100008686	100008706		100028071				
5 m	100008643	100008647	100008644	100008645	100008648	100008685	100008658	100008646
5.5 m	100008894	100028074		100028072				
6 m	100008844	100008863		100008861				
6.5 m	100008895	100028075		100028073				
7 m		100008923						
7.5 m						100008865	100008833	
10 m	100008981	100008985	100008982	100008983	100008986	100009014	100008990	100008984
10.5 m	100028082							
11 m	100009303							
11.5 m	100028083							
12 m	100009169							
12.5 m	100009145							
13 m	100009304							

Length	Grey	Yellow	Green	Red	Black	Purple	White	Blue
13.5 m	100009336							
14 m	100009305							
14.5 m	100028084							
15 m	100009114	100009130	100009118	100009122	100009134			100009126
20 m	100009117	100009131	100009119	100009123	100009135			100009127
25 m	100009115	100009132	100009120	100009124	100009136			100009128
50 m	100009116	100009133	100009121	100009125	100009137			100009129

Cat.6_A - Wiring 1:1 - S/FTP (LSZH) 1x90° - 1x180° - boot

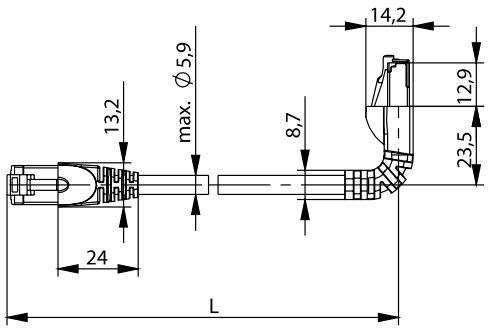




Length	Grey	Yellow	Green	Red	Black	White	Blue
Part No.							
0.5 m	100008010	100008018	100008012	100008014	100008020	100008022	100008016
1 m	100008011	100008019	100008013	100008015	100008021	100008023	100008017
1.5 m	100008286						
2 m	100008287	100008293	100008288	100008289	100008294	100008295	100008291
3 m	100008487	100008492	100008488	100008490	100008489	100008493	100008491
5 m	100008669	100008675	100008671	100008673	100008676	100008677	100008674
7.5 m	100008848	100008853	100008850	100008851	100008854	100008855	100008852
10 m	100009002	100009006	100009003	100009004	100009007	100009008	100009005

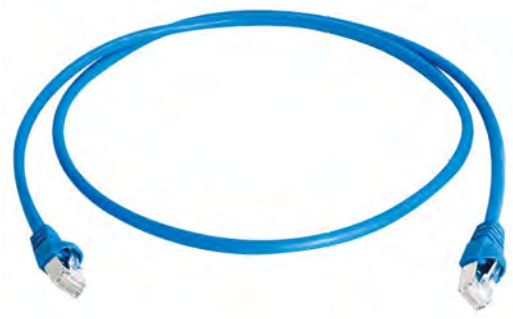
Cat.6$_A$ - Wiring 1:1 - S/FTP (LSZH) 1x270° - 1x180° - boot

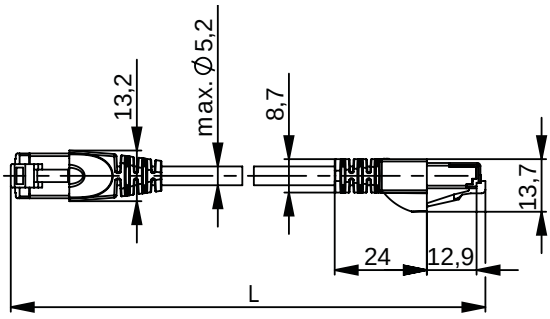




Length	Grey
Part No.	
0.5 m	100008040
1 m	100008041
2 m	100008305
3 m	100008502
5 m	100008691
7.5 m	100008875
10 m	100009020

Mini-Patch Cord S/FTP Cat.6$_A$ 4x2xAWG30/7 (LSZH) 8.2.2

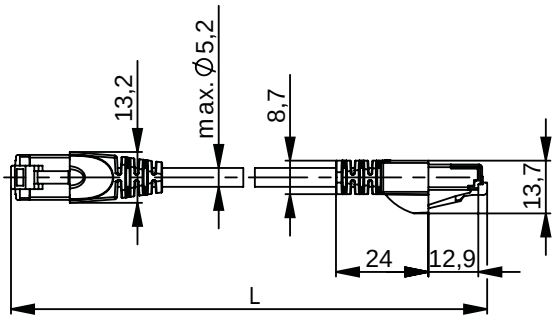




Length	Blue
Part No.	
0.5 m	100008091
1 m	100008092
1.5 m	100008343
2 m	100008344
2.5 m	100008537
3 m	100008538
5 m	100008740
7.5 m	100008912
10 m	100009057

8.2.3 Crossover Patch Cord S/FTP Cat.6_A 4x2xAWG27/7 (LSZH)





Length	Grey	Red
Part No.		
0.5 m	100007985	100007987
1 m	100007986	100007988
2 m	100008271	100008272
3 m	100008470	100008473
5 m	100008652	100008655
7.5 m	100008832	
10 m	100008987	100009015

8.2.4 Defined Disconnect CP-Link

The new DDCP-Link offers users and network managers a simple way to protect expensive and mobile IT equipment with a LAN connection from damage. If the mobile IT equipment is moved in a larger radius than the connected RJ45 connection cable allows, the DDCP-Link releases the connection above a certain tensile force and protects the expensive circuit boards of the IT equipment from damage such as torn out contacts or loss of the RJ45 socket for the network connection. Expensive repairs are therefore a thing of the past. As the release force is below the standard specifications for RJ45 plugs and sockets in accordance with IEC 60603-7, it is ensured that the connection between the RJ45 connection cable and the DDCP link is released first. Nevertheless, the DDCP offers sufficient insertion and withdrawal forces to prevent unintentional release of the connection in the event of low tensile forces. The DDCP can be easily integrated into existing structures, e.g. by plugging it between the telecommunications connection box, connection cable and in front of the active device.

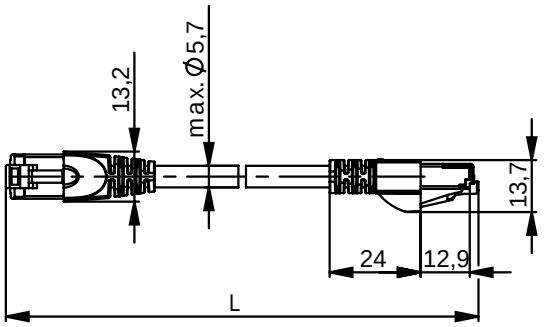
- Plug and jack: IEC 60603-7-51 compliant
- Life: ≥ 750 mating cycles
- Connection diagram 1:1; pin assignment T568B
- Shielding housing material of jack: die-cast nickel-plated zinc
- Protected release latch
- Contact finish material: Ni1.2Au0.8
- Outer diameter of cable: 5.8 mm (± 0.2 mm)
- Temperature range: -40 °C to +70 °C
- Power over Ethernet plus (PoE+) acc. to IEEE 802.3at
- Housing cover material: ABS blue or white
- Cable: S/FTP 4x2xAWG27/7 Cat.7 LSZH



Part No.	Description	Colour	Length
100008045	Defined Disconnect CP-Link	Blue	0.2 m
100008112	Defined Disconnect CP-Link	White	0.2 m

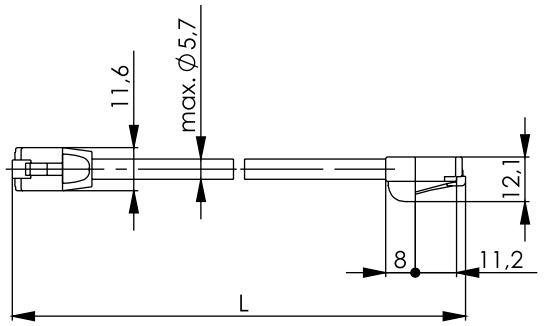
Patch Cord F/UTP Cat.5 4x2xAWG26/7 (LSZH) 8.2.5





Length	Grey	Yellow	Red	Black	White	Blue
Part No.						
0.25 m	100008165					
0.5 m	100008175	100008173	100008171	100008176	100008162	100008172
1 m	100008170	100008168	100008166	100008177		100008167
2 m	100008382	100008380	100008378	100008391	100008376	100008379
3 m	100008572	100008570	100008568	100008581	100008566	100008569
5 m	100008779	100008777	100008775	100008780	100008774	100008776
7.5 m	100008945	100008943	100008941	100008948	100008940	100008942
10 m	100009080	100009084	100009082	100009085	100009079	100009083
15 m	100009348	100009364	100009356	100009368		100009360
20 m	100009349	100009365	100009357	100009369		100009361
25 m	100009350	100009366	100009358	100009370		100009362
50 m	100009351	100009367	100009359	100009371		100009363

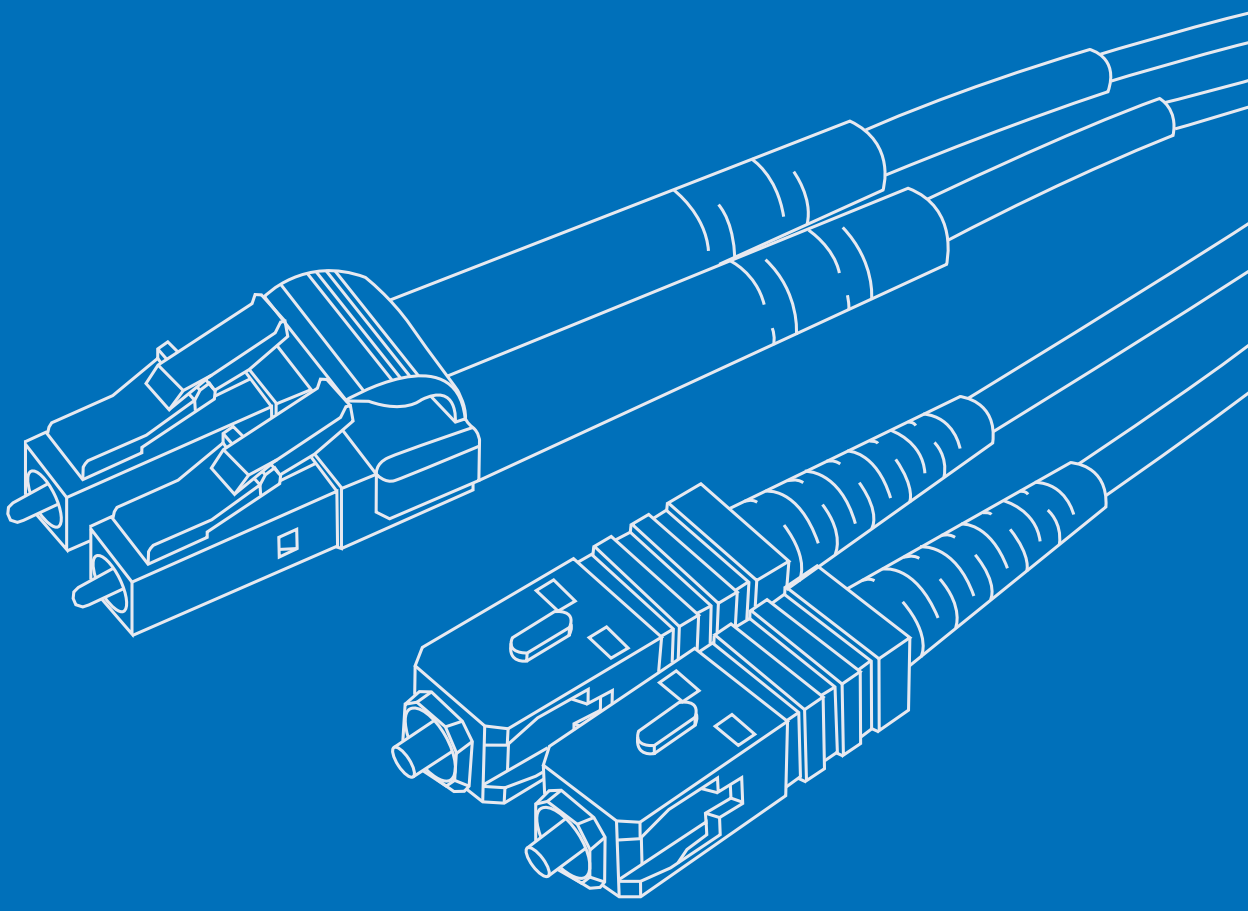




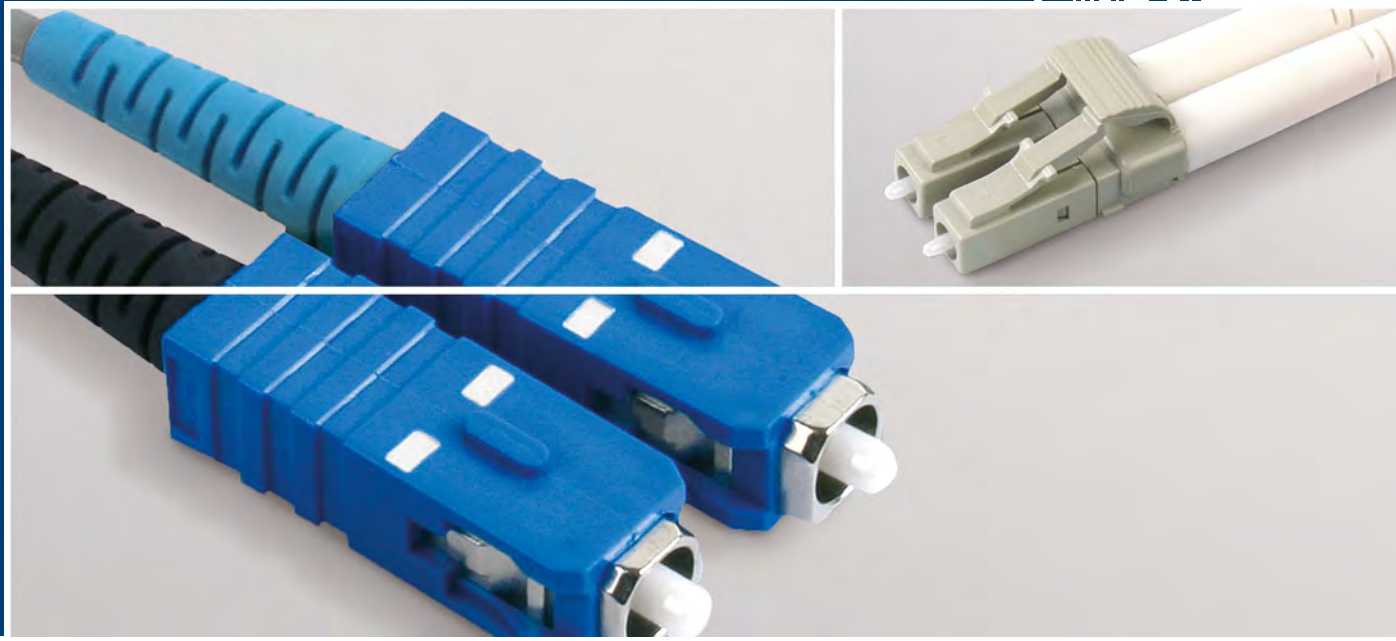
Length	Grey	Black
Part No.		
0.25 m	100008066	100008069
0.5 m	100008067	100008070
1 m	100008068	100008071
2 m	100008328	100008329
3 m	100008523	100008524
5 m	100008730	100008731
7.5 m	100008903	100008904
10 m	100009040	100009041

9

FO PATCH CORDS



FO PATCH CORDS



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A reliably functioning network requires reliable and high-performance cabling components. Tests and certifications by independent test laboratories regularly attest to the high quality of Telegärtner product solutions. Planners, installers and users thus receive further confirmation from a neutral party that cabling components from Telegärtner reliably meet the requirements of the relevant standards. This includes in particular the GHMT PREMIUM Verification Program (GHMT PVP) and GHMT Type Approval.

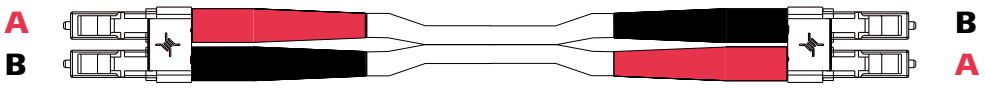
GHMT AG is a DIN EN ISO/IEC 17025 accredited testing laboratory whose certificates enjoy a particularly high level of recognition in the German-speaking market.

GHMT-tested cabling components offer particularly high

- **quality**
- **reliability**
- **safety**
- **performance**

Of all the components in a transmission link, patch cables are exposed to the highest loads and the greatest wear and tear exposed. This is why many users rely on patch cords from Telegärtner: Optimally matched components, optimally matched components, the highest quality standards and a seamlessly controlled manufacturing process guarantee safe, reliable network operation.

With duplex connectors, the cable routing is connected in accordance with ISO/IEC 11801, i.e. connection channel A on side 1 is connected to connection channel B on side 2. The channel distinction A/B is indicated by the different colors of the cable grommets (A=red, B=black).



acc. to ISO/IEC 11801

9.1 Patch cords

9.1.1 without GHMT PVP L2



LC-Duplex

Length	FO-PC dx LCD OS2 LCD	FO-PC dx LCD/A OS2 LCD/A	FO-PC dx LCD OM1 LCD	FO-PC dx LCD OM2 LCD	FO-PC dx LCD OM3 LCD	FO-PC dx LCD OM4 LCD (SW)	FO-PC dx LCD OM4 LCD (vi)	FO-PC dx LCD OM5 LCD
Part No.								
1 m	100011282	100011293	100011281	100011280	100011283	100011285	100011295	100011300
2 m	100011322	100011335	100011324	100011323	100011325	100011327	100011337	100011343
3 m	100011365	100011377	100011364	100011363	100011366	100011368	100011380	100011387
5 m	100011405	100011426	100011404	100011403	100011406	100011410	100011427	100011436
10 m	100011507	100011527	100011506	100011505	100011508	100011512	100011529	100011535



SC-Duplex

Length	FO-PC dx SCD OS2 SCD	FO-PC dx SCD OM1 SCD	FO-PC dx SCD OM2 SCD	FO-PC dx SCD OM3 SCD	FO-PC dx SCD OM4 SCD (SW)	FO-PC dx SCD OM4 SCD (vi)
Part No.						
1 m	100011754	100011778	100011777	100011779	100011758	100011766
2 m	100011787	100011817	100011816	100011820	100011800	100011807
3 m	100011823	100011851	100011850	100011857	100011834	100011843
5 m	100011858	100011895	100011894	100011901	100011877	100011888
10 m	100011932	100011964	100011963	100011962	100011948	100011957



2x SC-Simplex

Length	FO-PC dx 2 SC OS2 2 SC	FO-PC dx 2 SC OM1 2 SC	FO-PC dx 2 SC OM2 2 SC	FO-PC dx 2 SC OM3 2 SC	FO-PC dx 2 SC OM4 2 SC (SW)	FO-PC dx 2 SC OM4 2 SC (vi)
Part No.						
1 m	100011753	100011794	100011776	100011775	100011872	100011757
2 m	100011786	100011793	100011815	100011814	100011821	100011799
3 m	100011824	100011828	100011853	100011852	100011849	100011833
5 m	100011859	100011864	100011897	100011896	100011903	100011876
10 m	100011933	100011937	100011966	100011965	100011971	100011947

MDC-Duplex Senior

Length	FO-PC MDCD-SGR OS2 MDCD-SGR	FO-PC MDCD/A-SGR OS2 MDCD/A-SGR	FO-PC MDCD-SGR OM4 MDCD-SGR
Part No.			
1 m	100128507	100128515	100128523
2 m	100128509	100128517	100126078
3 m	100128511	100128519	100128526
5 m	100128512	100128520	100128341
10 m	100128513	100128521	100128527



LC-Duplex Uniboot

Length	FO-PC dx LC-HD-UB OS2 LC-HD-UB	FO-PC dx LC-HD-UB OS2 LC-HD-UB	FO-PC dx LC-HD-UB OM3 LC-HD-UB	FO-PC dx LC-HD-UB OM4 LC-HD-UB	FO-PC dx LC-HD-UB OM5 LC-HD-UB
Part No.					
1 m	100011312	100011314	100011316	100011318	100011320
2 m	100011354	100011356	100011358	100011360	100011362
3 m	100011394	100011396	100011398	100011400	100011402
5 m	100011449	100011450	100011451	100011452	100011453
10 m	100011543	100011544	100011545	100011546	100011547

9.1.1

9.1.1 without GHMT PVP L2



ST

Length	FO-PC dx 2 ST OS2 2 ST	FO-PC dx 2 ST OM1 2 ST	FO-PC dx 2 ST OM2 2 ST	FO-PC dx 2 ST OM3 2 ST	FO-PC dx 2 ST OM4 2 ST
Part No.					
1 m	100010724	100010723	100010722	100010726	100010730
2 m	100010744	100010743	100010741	100010750	100010752
3 m	100010764	100010763	100010762	100010766	100010769
5 m	100010779	100010778	100010777	100010780	100010786
10 m	100010818	100010817	100010816	100010803	100010805

9.1.2 with GHMT PVP L2



E2000

Length	FO-PC dx E2K OS2 E2K P2	FO-PC E2K OM4 E2K P2	FO-PC E2K/A OS2 E2K/A P2
Part No.			
1 m	100042872	100042914	100042693
2 m	100042874	100042916	100042695
3 m	100042876	100042918	100042697
5 m	100042878	100042920	100042699
10 m	100042881	100042923	100042702



LCD

Length	FO-PC LCD OM4 LCD P2	FO-PC LCD OS2 LCD P2	FO-PC LCD/A OS2 LCD/A P2
Part No.			
1 m	100011310	100011307	100011308
2 m	100011352	100011348	100011349
3 m	100011392	100011389	100011390
5 m	100011448	100011442	100011444
10 m	100011542	100011536	100011538

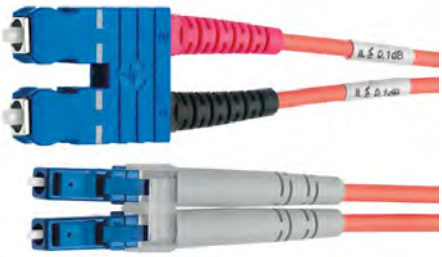


SCD

Length	FO-PC xm SCD OM4 SCD P2	FO-PC xm SCD OS2 SCD P2
Part No.		
1 m	100011773	100011772
2 m	100011812	100011810
3 m	100011848	100011847
5 m	100011893	100011892
10 m	100042792	100011961

9.2 Adapter cords

9.2.1 without GHMT PVP L2



SC-LC

Length	FO-PC dx SCD OS2 LCD	FO-PC dx SCD OM1 LCD	FO-PC dx SCD OM2 LCD	FO-PC dx SCD OM3 LCD	FO-PC dx SCD OM4 LCD (sw)	FO-PC dx SCD OM4 LCD (vi)
Part No.						
1 m	100012082	100012137	100012136	100012141	100012104	100012123
2 m	100012159	100012233	100012232	100012241	100012191	100012217
3 m	100012271	100012334	100012333	100012331	100012290	100012280
5 m	100012360	100012455	100012454	100012450	100012385	100012417
10 m	100012567	100012637	100012636	100012632	100012588	100012615



ST-SC

Length	FO-PC dx 2 ST OS2 SCD	FO-PC dx 2 ST OM2 SCD	FO-PC dx 2 ST OM3 SCD	FO-PC dx 2 ST OM4 SCD	FO-PC dx 2 ST OM1 SCD
Part No.					
1 m	100012072	100012130	100012142	100012101	100012131
2 m	100010746	100012249	100012235	100012188	100012250
3 m	100012256	100012327	100012337	100012287	100012329
5 m	100012347	100012445	100012451	100012382	100012443
10 m	100012554	100012629	100012633	100012585	100012628

with GHMT PVP L2 9.2.2



E2000-LCD

Length	FO-PC E2K OS2 LCD P2	FO-PC E2K OM4 LCD P2	FO-PC E2K OS2 LCD/A P2	FO-PC dx E2K OS2 SCD P2	FO-PC E2 OM4 SCD P2	FO-PC dx E2K/A OS2 E2K P2
Part No.						
1 m	100042836	100042886	100042816	100042858	100042900	100042928
2 m	100042838	100042888	100042818	100042860	100042902	100042930
3 m	100042840	100042890	100042820	100042862	100042904	100042932
5 m	100042842	100042892	100042822	100042864	100042906	100042934
10 m	100042845	100042895	100042826	100042867	100042909	100042937



E2000/APC LCD

Length	FO-PC E2K/A OS2 LCD P2	FO-PC E2K/A OS2 LCD/A P2	FO-PC E2K/A OS2 SCD P2	FO-PC dx LCD OM4 SCD P2	FO-PC dx LCD OS2 SCD P2	FO-PC dx LCD/A OS2 LCD P2	FO-PC dx LCD/A OS2 SCD P2
Part No.							
1 m	100042721	100042707	100042735	100012129	100042766	100011309	100012128
2 m	100042722	100042709	100042737	100012230	100012228	100011350	100012229
3 m	100042725	100042711	100042739	100012325	100012323	100011391	100012324
5 m	100042727	100042713	100042741	100012441	100012437	100011446	100012439
10 m	100042730	100042716	100042744	100012627	100012624	100011540	100012626

9.3 MPO

9.3.1 without GHMT PVP L2

- High quality MTP® connector
- Connector 1: unpinned (“female”)
- Connector 2: unpinned (“female”)
- Polarity A, type B and C on request
- Cable diameter: 3.0 mm
- Customized lengths available on request





Length	OS2/APC	OM3	OM4
Part No.			
1 m	100010911	100010909	100010910
2 m	100010952	100010950	100010951
3 m	100010994	100010992	100010993
5 m	100011037	100011035	100011036
10 m	100011096	100011094	100011095
15 m	100011135	100011133	100011134
20 m	100011138	100011136	100011137
25 m	100011141	100011139	100011140
30 m	100011144	100011142	100011143
35 m	100011147	100011145	100011146
40 m	100011150	100011148	100011149
50 m	100011153	100011151	100011152
60 m	100011156	100011154	100011155
70 m	100011159	100011157	100011158
80 m	100011162	100011160	100011161
90 m	100011165	100011163	100011164
100 m	100011168	100011166	100011167

with GHMT PVP L2 — 9.3.2

Length	FO-PC mx A MPO12/Am OS2 MPO12/Am P2	FO-PC mx A MPO12/Af OS2 MPO12/Af P2	FO-PC mx A MPO12m OM4 MPO12m P2	FO-PC mx A MPO12f OM4 MPO12f P2
Part No.				
1 m	100132084	100132067	100132118	100132101
2 m	100132085	100132068	100132119	100132102
3 m	100132086	100132069	100132120	100132103
5 m	100132087	100132070	100132121	100132104
10 m	100132088	100132071	100132122	100132105
15 m	100132089	100132072	100132123	100132106
20 m	100132090	100132073	100132124	100132107
25 m	100132091	100132074	100132125	100132108
30 m	100132092	100132075	100132126	100132109
35 m	100132093	100132076	100132127	100132110
40 m	100132094	100132077	100132128	100132111
50 m	100132095	100132078	100132129	100132112
60 m	100132096	100132079	100132130	100132113
70 m	100132097	100132080	100132131	100132114
80 m	100132098	100132081	100132132	100132115
90 m	100132099	100132082	100132133	100132116
100 m	100132100	100132083	100132134	100132117

MPO-LC — 9.4

without GHMT PVP L2 — 9.4.1

- Low insertion loss versions on request
- Connector 1: MPO/MTP® (IEC 61754-7), pinned (“male”)
- Connector 2: LC (IEC 61754-20)
- Customized lengths available on request
- LSZH





Length	OS2/PC*	OS2/APC*	OM3	OM4
Part No.				
1 m	100010926	100010924	100010920	100010922
2 m	100010967	100010965	100010961	100011107
3 m	100011009	100011007	100011003	100010963
5 m	100011052	100011050	100011046	100011005
10 m	100011111	100011109	100011105	100011048

*applies to LC

9.4.2 with GHMT PVP L2

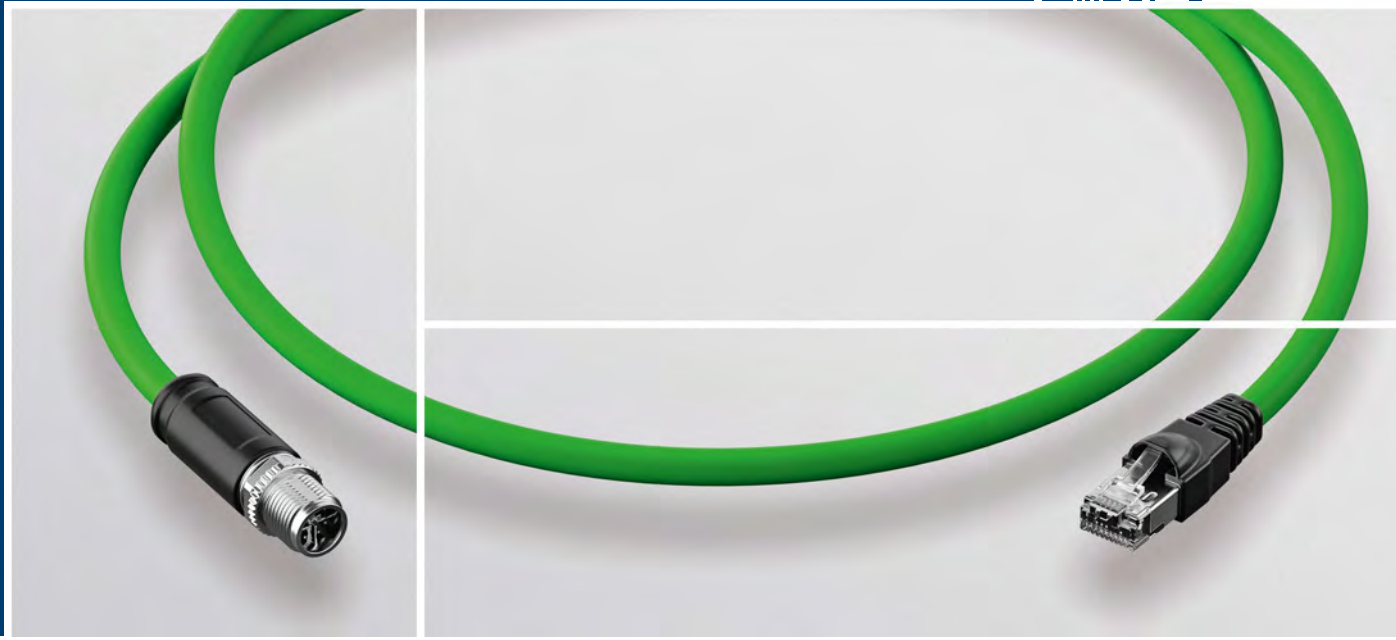
Length	FO-HRS mx MPO12/m OS2 LC P2	FO-HRS mx MPO12/m OS2 LC/A P2	FO-HRS mx MPO12f OM4 LC P2
Part No.			
1 m	100132206	100132201	100132157
2 m	100132207	100132202	100132158
3 m	100132208	100132203	100132159
5 m	100132209	100132204	100132160
10 m	100132210	100132205	100132161

10

M12X1 CONNECTING CABLE



M12X1 CONNECTING CABLE



10.1 M12x1 D-coded Connecting Cable 192
10.1.1 M12x1 D-coded cable plug to M12x1 D-coded cable plug 192
10.1.2 M12x1 D-coded cable plug to RJ45 cable plug 193
10.1.3 M12x1 D-coded cable plug to RJ45 (MFP8) cable plug 193
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10.2 M12x1 X-coded Connecting Cable 195
10.2.1 M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 26/7, S/FTP, PUR, Cat.6_A 195
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10.2.3 M12x1 X-coded cable plug to free cable end 197
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10.2.5 M12x1 X-coded Cable Socket to RJ45 cable plug AWG 26/7, S/FTP, PUR, Cat.6_A 198
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10.3 M12x1 X-coded Connecting for Railway and Vehicle Applications 199
10.3.1 M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 199
10.3.2 M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 200
10.3.3 M12x1 X-coded cable plug to M12x1 X-coded Cable Socket, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 200
10.3.4 RJ45 (MFP8 IE) cable plug to RJ45 (MFP8 IE) cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 201
10.4 M12x1 Accessories 202

	Connecting Cable S/FTP Cat.7 PUR	Connecting Cable SF/UTP Cat.5 PUR
Mechanical Characteristics		
Durability (mating cycles) M12	≥ 100	≥ 100
Durability (mating cycles) RJ45	≥ 750	≥ 750
Cable structure	LI02YSC11Y PUR 4x2xAWG 26/7 PiMF	LI-2YH(ST)C11Y PUR 2x2xAWG 22/7
Stranded wire	AWG26 (7 x 0.16 mm)	AWG22 (7 x 0.254 mm)
Insulation	Foam PE, Ø 1.04 mm	Polyethyolene, Ø 1.5 mm
Pair shielding	Al-foil, outside conducting	-
Overall shielding	tin plated copper braid	tin plated copper braid, Al-foil, inside conducting
Outer jacket	Ø 6.2 ±0.2 mm	Ø 6.4 ±0.3 mm
Colour	RAL 6018	RAL 6018
Climatic Characteristics		
UL	E344985	-
flame-retardant test	IEC 60332-1	IEC 60332-1
Operating temperature in °C	-40 °C to 80 °C	-40 °C to 80 °C

Nomenclature

Example: CP01CP01B-SFTP2607C7-1PUR-A0050

1 2 3 4 5 6 7 8 9 10

1 = Connector Side 1

CP01	Cable plug straight, X-coded, moulded, IP67
CP02	Cable plug straight, D-coded, moulded, IP67
CS01	Cable socket straight, X-coded, IP20
CS02	Cable socket straight, X-coded, moulded, IP67

2 = Connector Side 2

CP01	Cable plug straight, X-coded, moulded, IP67
CP02	Cable plug straight, D-coded, moulded, IP67
CP03	RJ45 Plug straight, moulded, IP67
CP04	RJ45 Plug straight, IP20 (for AWG24/1-22/1 and AWG27/7-22/7)
CP05	RJ45 Plug straight, IP20 (for AWG26/1-24/1 and AWG27/7-24/7)
CS01	Cable socket straight, X-coded, IP20
CS02	Cable socket straight, X-coded, moulded, IP67
FC00	Free cable end

3 = Boot Colour

A	green
B	black

4 = Screen

SFUTP	SF/UTP
SFTP	S/FTP

5 = Conductor

2607	AWG26/7
2207	AWG22/7

6 = Bulk Cable

C5	Cat.5
C7	Cat.7

7 = Connection

1	1:1

8 = Material Outer Jacket

PUR	PUR

9 = Colour Outer Jacket

A	green

10 = Cable Length

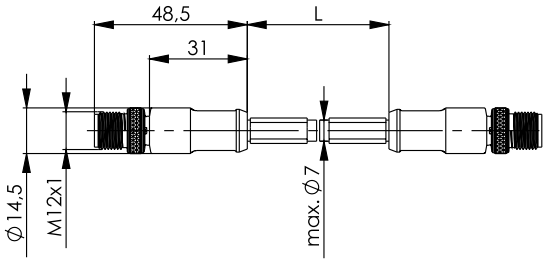
0050	0.5 m
0100	1.0 m
0200	2.0 m
0300	3.0 m
0500	5.0 m
0750	7.5 m
1000	10.0 m

10.1 M12x1 D-coded Connecting Cable

10.1.1 M12x1 D-coded cable plug to M12x1 D-coded cable plug

4-pin D-coded connectors in category 5 are specified for data rates of up to 100 Mbit/s, which are particularly important in the PROFINET environment. These connectors ensure reliable data transmission for industrial applications where reliability and speed are crucial.

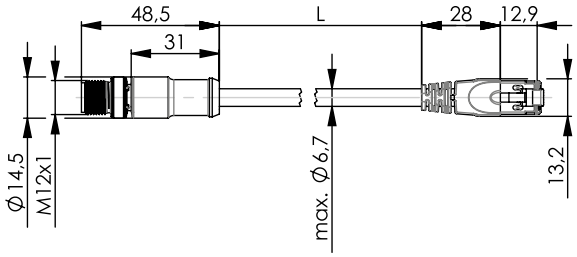




Part No.	Description	Short name	Type	Colour	Length
100017256	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0050	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	0.5 m
100017257	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0100	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	1 m
100017261	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0200	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	2 m
100017263	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0300	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	3 m
100017265	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0500	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	5 m
100017268	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A0750	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	7.5 m
100017270	STX M12x1-M12x1 CC D-cod. Cat.5	CP02CP02BSFUTP2207C5-1PUR-A1000	1st end: M12x1 cable plug D-coded, IP67; 2nd end: M12x1 cable plug D-coded, IP67	boot: black; jacket: green	10 m

M12x1 D-coded cable plug to RJ45 cable plug 10.1.2

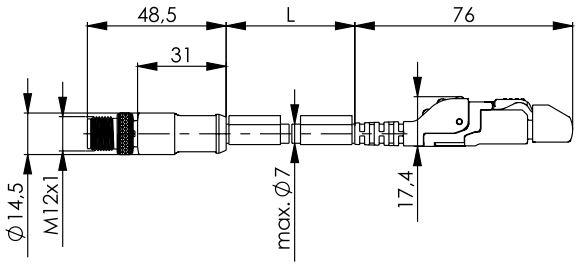




Part No.	Description	Short name	Type	Colour	Length
100017277	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0750	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	0.5 m
100017278	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0100	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	1 m
100017283	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0200	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	2 m
100017287	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0300	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	3 m
100017290	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0500	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	5 m
100017294	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A0750	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	7.5 m
100017297	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04BSFUTP2207C5-1PUR-A1000	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	10 m

M12x1 D-coded cable plug to RJ45 (MFP8) cable plug 10.1.3





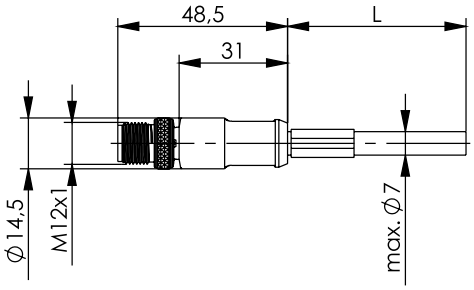
Part No.	Description	Short name	Type	Colour	Length
100017275	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A0050	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	0.5 m
100017276	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ABSFUTP2207C5-1PUR-A0100	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	1 m
100017282	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A0200	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	2 m
100017286	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A0300	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	3 m

10.1.3

Part No.	Description	Short name	Type	Colour	Length
100017289	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A0500	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	5 m
100017293	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A0750	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	7.5 m
100017296	STX M12x1-RJ45 CC D-cod. Cat.5	CP02CP04ASFUTP2207C5-1PUR-A1000	1st end: M12x1 cable plug D-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	10 m

10.1.4 M12x1 D-coded male to free cable end

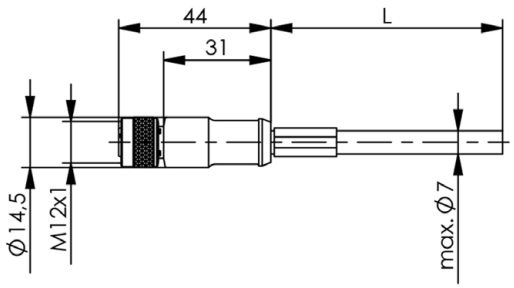




Part No.	Description	Short name	Type	Colour	Length
100017424	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A0050	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	0.5 m
100017425	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A0100	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	1 m
100017426	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A0200	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	2 m
100017427	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A0300	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	3 m
100017428	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2607C5-1PUR-A0500	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	5 m
100017429	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A0750	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	7.5 m
100017430	STX M12x1 CC D-cod. Cat.5	CP02FC00BSFUTP2207C5-1PUR-A1000	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	10 m

M12x1 D-coded female to free cable end 10.1.5





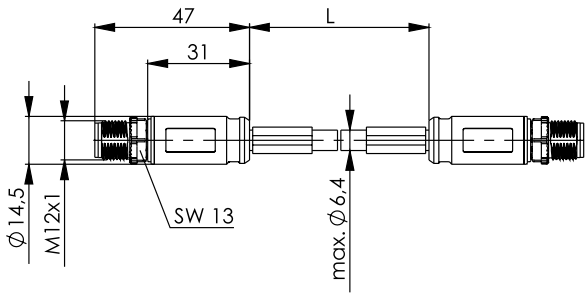
Part No.	Description	Short name	Type	Colour	Length
100017438	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0050	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	0.5 m
100017439	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0100	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	1 m
100017440	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0200	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	2 m
100017441	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0300	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	3 m
100017442	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0500	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	5 m
100017443	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A0750	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	7.5 m
100017444	STX M12x1 CC D-cod. Cat.5	CS03FC00BSFUTP2207C5-1PUR-A1000	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	10 m

M12x1 X-coded Connecting Cable 10.2

M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 26/7, S/FTP, PUR, Cat.6$_A$ 10.2.1

Telegärtner offers pre-assembled connection cables in Cat.6A for the device connection between machines or other end devices as well as from the machine or end device into the control cabinet. The M12×1 connection cables with X-coding have an S/FTP 4×2×AWG26/7 structure, a PUR sheath and are suitable for an increased temperature range of - 40 °C to + 85 °C.





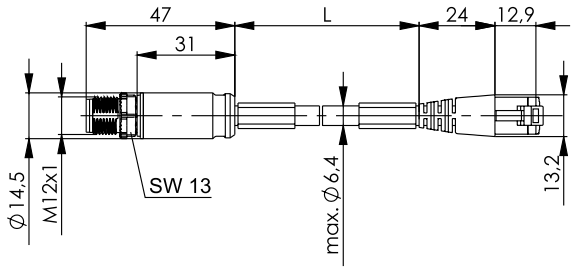
Part No.	Description	Short name	Type	Colour	Length
100017138	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0050	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	0.5 m

10.2.1

Part No.	Description	Short name	Type	Colour	Length
100017139	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0100	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	1 m
100017159	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0200	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	2 m
100017177	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0300	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	3 m
100017181	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0500	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	5 m
100017190	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A0750	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	7.5 m
100017197	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CP01B-SFTP2607C7-1PUR-A1000	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: green	10 m

10.2.2 M12x1 X-coded cable plug to RJ45 cable plug, AWG 26/7, S/FTP, PUR, Cat.6$_A$

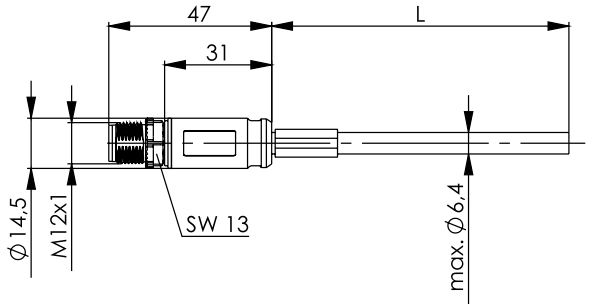




Part No.	Description	Short name	Type	Colour	Length
100017233	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0050	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	0.5 m
100017234	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0100	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	1 m
100017240	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0200	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	2 m
100017242	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0300	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	3 m
100017246	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0500	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	5 m
100017248	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A0750	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	7.5 m
100017250	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2607C7-1PUR-A1000	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	10 m

M12x1 X-coded cable plug to free cable end 10.2.3

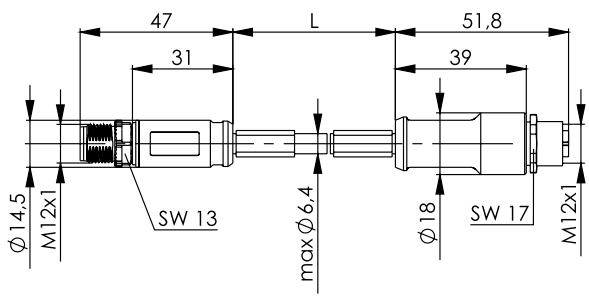




Part No.	Description	Short name	Type	Colour	Length
100017403	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0050	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	0.5 m
100017404	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0100	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	1 m
100017410	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0200	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	2 m
100017412	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0300	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	3 m
100017415	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0500	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	5 m
100017417	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A0750	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	7.5 m
100017419	STX M12x1 CC X-cod. Cat.6_A	CP01FC00B-SFTP2607C7-1PUR-A1000	1st end: M12x1 cable plug, IP67; 2nd end: free cable end	boot: black; jacket: green	10 m

M12x1 X-coded cable plug to M12x1 X-coded Cable Socket, AWG 26/7, S/FTP, PUR, Cat.6_A 10.2.4





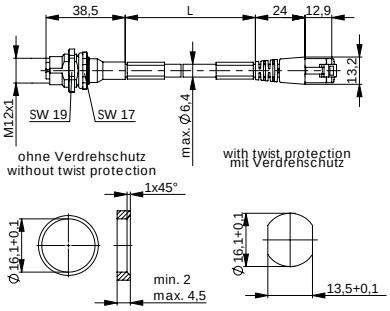
Part No.	Description	Short name	Type	Colour	Length
100017372	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2607C7-1PUR-A0050	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	0.5 m
100017373	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2607C7-1PUR-A0100	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	1 m
100017377	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2607C7-1PUR-A0200	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	2 m
100017379	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2607C7-1PUR-A0300	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	3 m

10.2.4

Part No.	Description	Short name	Type	Colour	Length
100017381	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2607C7-1PUR-A0500	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	5 m
100017383	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2607C7-1PUR-A0750	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	7.5 m
100017385	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2607C7-1PUR-A1000	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: green	10 m

10.2.5 M12x1 X-coded Cable Socket to RJ45 cable plug AWG 26/7, S/FTP, PUR, Cat.6$_A$

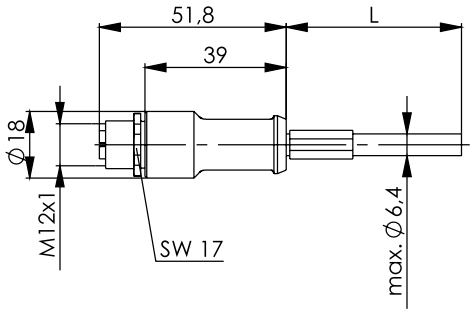




Part No.	Description	Short name	Type	Colour	Length
100017390	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CS01CP05A-SFTP2607C7-1PUR-A0050	1st end: M12x1 X-coded cable socket IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	0.5 m
100017391	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CS01CP05A-SFTP2607C7-1PUR-A0100	1st end: M12x1 X-coded cable socket IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	1 m
100017393	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CS01CP05A-SFTP2607C7-1PUR-A0200	1st end: M12x1 X-coded cable socket IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	2 m
100017394	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CS01CP05A-SFTP2607C7-1PUR-A0300	1st end: M12x1 X-coded cable socket IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	3 m
100017395	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CS01CP05A-SFTP2607C7-1PUR-A0500	1st end: M12x1 X-coded cable socket IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: green	5 m

10.2.6 M12x1 X-coded Cable Socket to free cable end





Part No.	Description	Short name	Type	Colour	Length
100017431	STX M12x1 CC X-cod. Cat.6$_A$	CS02FC00B-SFTP2607C7-1PUR-A0050	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	0.5 m
100017432	STX M12x1 CC X-cod. Cat.6$_A$	CS02FC00B-SFTP2607C7-1PUR-A0100	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	1 m

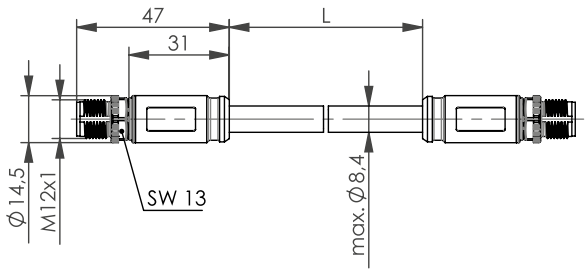
Part No.	Description	Short name	Type	Colour	Length
100017433	STX M12x1 CC X-cod. Cat.6_A	CS02FC00B-SFTP2607C7-1PUR-A0200	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	2 m
100017434	STX M12x1 CC X-cod. Cat.6_A	CS02FC00B-SFTP2607C7-1PUR-A0300	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	3 m
100017435	STX M12x1 CC X-cod. Cat.6_A	CS02FC00B-SFTP2607C7-1PUR-A0500	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	5 m
100017436	STX M12x1 CC X-cod. Cat.6_A	CS02FC00B-SFTP2607C7-1PUR-A0750	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	7.5 m
100017437	STX M12x1 CC X-cod. Cat.6_A	CS02FC00B-SFTP2607C7-1PUR-A1000	1st end: M12x1 cable socket, IP67; 2nd end: free cable end	boot: black; jacket: green	10 m

M12x1 X-coded Connecting for Railway and Vehicle Applications 10.3

M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 10.3.1

Telegärtner offers pre-assembled connection cables in Cat.6A for the device connection between machines or other end devices as well as from the machine or end device into the control cabinet. The M12×1 connection cables with X-coding have an S/FTP 4×2×AWG26/7 structure, a PUR sheath and are suitable for an increased temperature range of - 40 °C to + 85 °C.

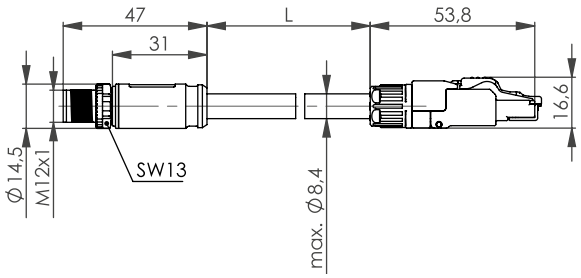




Part No.	Description	Short name	Type	Colour	Length
100017141	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0050	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	0.5 m
100017142	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0100	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	1 m
100017161	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0200	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	2 m
100017178	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0300	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	3 m
100017185	STX M12x1-M12x1 VL X-kod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0400	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	4 m
100017183	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0500	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	5 m
100017192	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B0750	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	7.5 m
100017199	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CP01B-SFTP2419C7-1XFRNC-B1000	1st end: M12x1 cable plug X-coded IP67; 2nd end: M12x1 cable plug X-coded, IP67	boot: black; jacket: blue	10 m

10.3.2 M12x1 X-coded cable plug to M12x1 X-coded cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6$_A$

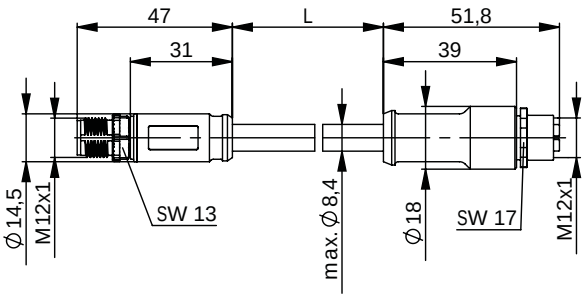




Part No.	Description	Short name	Type	Colour	Length
100017236	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0050	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	0.5 m
100017237	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0100	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	1 m
100017241	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0200	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	2 m
100017243	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0300	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	3 m
100017245	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0400	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	4 m
100017247	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0500	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	5 m
100017249	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB0750	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	7.5 m
100017251	STX M12x1-RJ45 CC X-cod. Cat.6$_A$	CP01CP05B-SFTP2419C7-1XFRNCB1000	1st end: M12x1 cable plug X-coded, IP67; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	10 m

10.3.3 M12x1 X-coded cable plug to M12x1 X-coded Cable Socket, AWG 24/19, S/FTP, X-FRNC, Cat.6$_A$



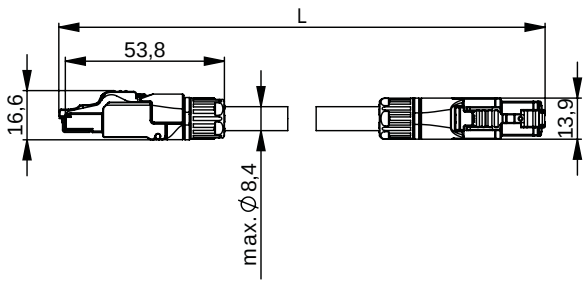


Part No.	Description	Short name	Type	Colour	Length
100017375	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2419C7-1XFRNCB0050	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	0.5 m
100017376	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2419C7-1XFRNCB0100	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	1 m
100017378	STX M12x1-M12x1 CC X-cod. Cat.6$_A$	CP01CS02B-SFTP2419C7-1XFRNCB0200	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	2 m

Part No.	Description	Short name	Type	Colour	Length
100017380	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2419C7-1XFRNCB0300	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	3 m
100017382	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2419C7-1XFRNCB0500	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	5 m
100017384	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2419C7-1XFRNCB0750	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	7.5 m
100017386	STX M12x1-M12x1 CC X-cod. Cat.6_A	CP01CS02B-SFTP2419C7-1XFRNCB1000	1st end: M12x1 cable plug X-coded, IP67; 2nd end: M12x1 cable socket X-coded, IP67	boot: black; jacket: blue	10 m

RJ45 (MFP8 IE) cable plug to RJ45 (MFP8 IE) cable plug, AWG 24/19, S/FTP, X-FRNC, Cat.6_A 10.3.4

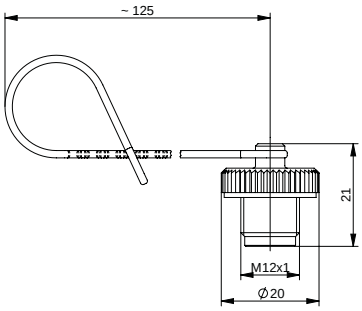




Part No.	Description	Short name	Type	Colour	Length
100017309	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0050	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	0.5 m
100017310	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0100	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	1 m
100017321	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0200	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	2 m
100017326	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0300	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	3 m
100017337	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0500	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	5 m
100017344	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB0750	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	7.5 m
100017351	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB1000	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	10 m
100017360	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB1500	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	15 m
100017361	STX RJ45 - RJ45 CC Cat.6_A	CP04CP04C-SFTP2419C7-1XFRNCB2000	1st end: RJ45 cable plug IP20; 2nd end: RJ45 cable plug IP20	boot: black; jacket: blue	20 m

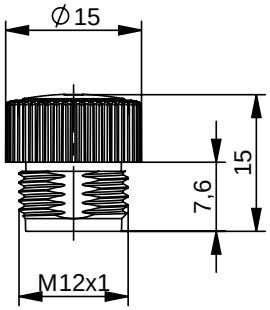
10.4 M12x1 Accessories





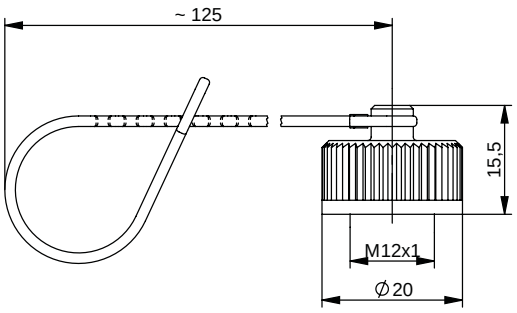
Part No.	Description	Remarks
100022779	STX M12x1 socket protective cap with wrist strap	for D- and X-coded





Part No.	Description	Remarks
100022778	STX M12x1 socket protective cap	for D- and X-coded

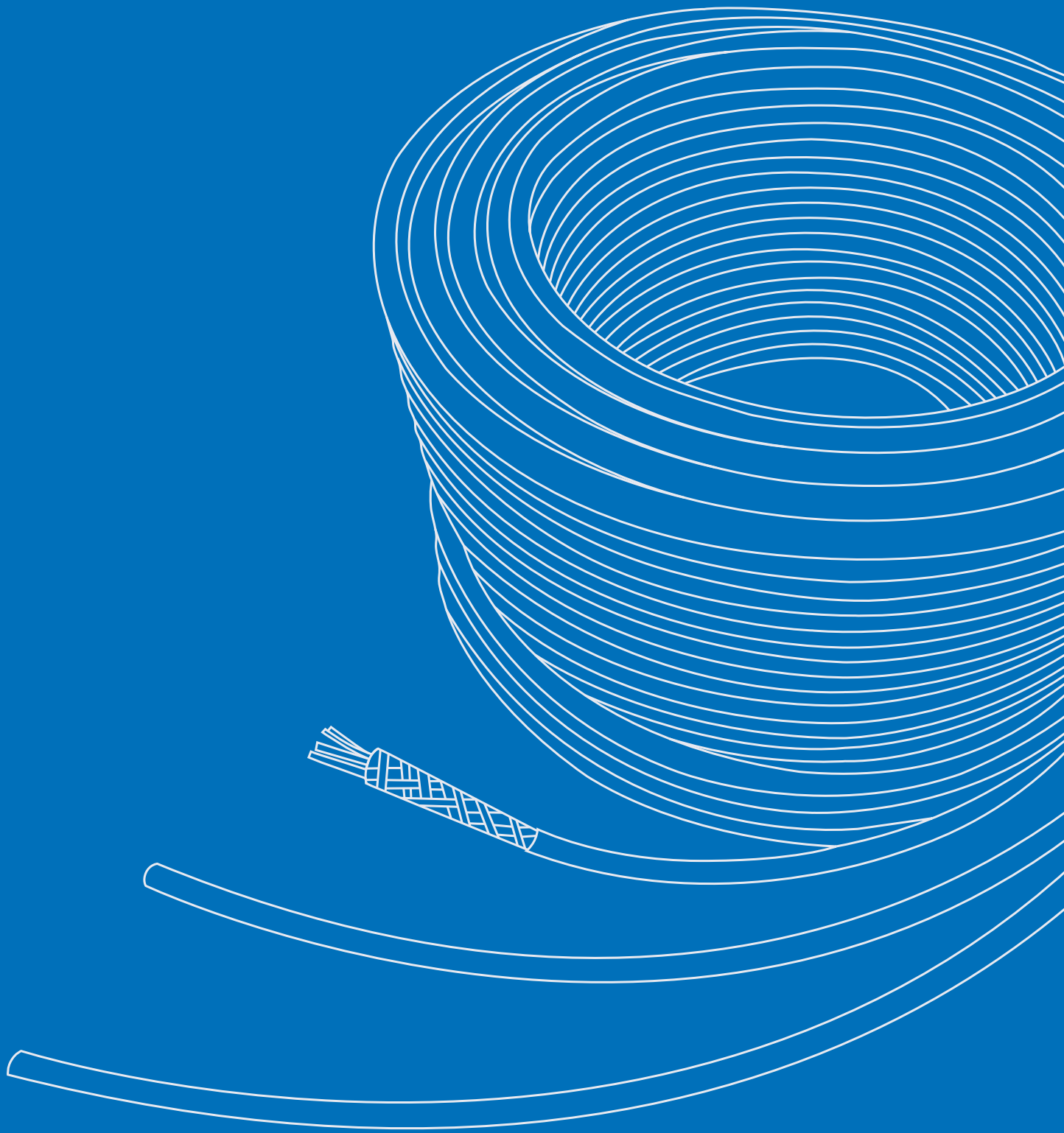




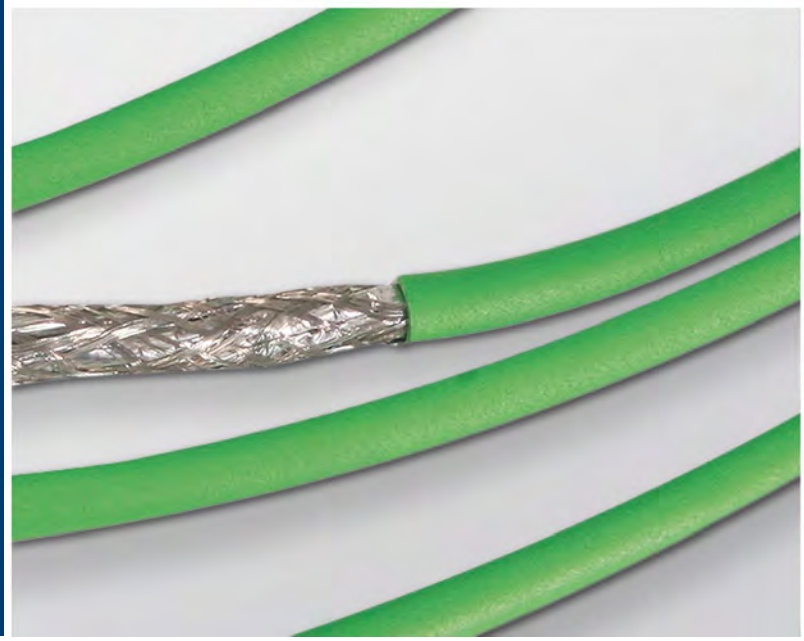
Part No.	Description	Remarks
100022777	STX M12x1 plug protective cap with wrist strap	for D- and X-coded

11

COPPER CABLES IN BULK



COPPER CABLES IN BULK





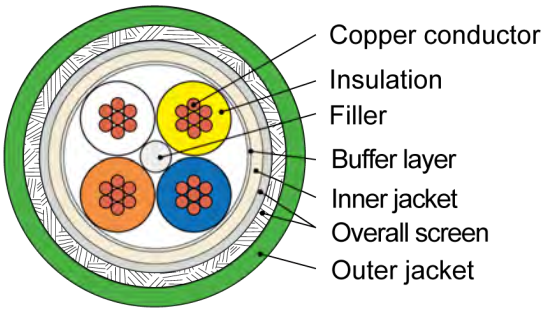
11.1 Copper Cables SF/UTP 206
11.2 Copper Cables S/FTP 207

Cable Type: Installation cable						
Description	Category	Outer Jacket	Structure	Colour	Euro Class	Part No.
AMJ2000	Cat.8.2	LSZH	S/FTP 4x2xAWG23/1	blue	Dca-s2,d1,a1	100013194
AMJ1400	Cat.7_A	LSZH	S/FTP 4x2xAWG22/1	blue	Cca-s1a,d1,a1	100028020
AMJ1600	Cat.7_A	LSZH	S/FTP 4x2xAWG22/1	blue	Eca	100027790
AMJ1600	Cat.7_A	LSZH	S/FTP 4x2xAWG22/1	blue	Eca	100027792
AMJ1600	Cat.7_A	LSZH	S/FTP 4x2xAWG22/1	blue	B2ca-s1a,d1,a1	100013177
AMJ1600	Cat.7_A	LSZH	S/FTP 4x2xAWG22/1	blue	B2ca-s1a,d1,a1	100013178
AMJ1300	Cat.7_A	LSZH	S/FTP 4x2xAWG23/1	blue	Dca-s2,d2,a1	100027780
AMJ1300	Cat.7_A	LSZH	S/FTP 4x2xAWG23/1	blue	Dca-s2,d2,a1	100027782
AMJ1300	Cat.7_A	LSZH	S/FTP 4x2xAWG23/1	blue	Cca-s1a,d1,a1	100027903
AMJ1300	Cat.7_A	LSZH	S/FTP 2x(4x2xAWG23/1)	blue	Dca-s1,d2,a1	100027783
AMJ1000	Cat.7	LSZH	S/FTP 4x2xAWG23/1	blue	Dca-s2,d1,a1	100027778
AMJ1000	Cat.7	LSZH	S/FTP 4x2xAWG23/1	blue	Dca-s2,d1,a1	100027776
AMJ1000	Cat.7	LSZH	S/FTP 4x2xAWG23/1	blue	Cca-s1a,d1,a1	100028018
AMJ1000	Cat.7	LSZH	S/FTP 2x(4x2xAWG23/1)	blue	Dca-s1,d1,a1	100027779
AMJ1000	Cat.7	PE	S/FTP 4x2xAWG23/1	black	Fca	100033543
TOC900	Cat.7	FRNC-C,MUD	S/FTP 4x2xAWG23/1	grey	Eca	100027773
STX900	Cat.7	PUR	S/FTP 4x2xAWG23/1	green	Fca	100033540
AMJ500	Cat.6_A	LSZH	U/FTP 4x2xAWG23/1	black	Cca-s1a,d1,a1	100028019
AMJ500	Cat.6_A	LSZH	U/FTP 4x2xAWG23/1	black	Dca-s2,d1,a1	100027785
AMJ500	Cat.6_A	LSZH	U/FTP 4x2xAWG23/1	black	Dca-s2,d1,a1	100027787
UMJ500	Cat.6_A	LSZH	U/FTP 4x2xAWG23/1	black	Dca-s1,d2,a1	100013123
AMJ500	Cat.6_A	LSZH	U/FTP 2x(4x2xAWG23/1)	black	Dca-s2,d1,a1	100027786
AMJ300	Cat.6	LSZH	F/UTP 4x2xAWG23/1	black	Dca-s2,d0,a1	100013182
UMJ300	Cat.6	LSZH	U/UTP 4x2xAWG23/1	black	Dca-s2,d0,a1	100013181
AMJ200	Cat.5	LSZH	F/UTP 4x2xAWG24/1	black	Dca-s2,d0,a1	100013180
---	Cat.5	PVC	SF/UTP 4x2xAWG24/1	green	---	100013205
---	Cat.5	PUR	SF/UTP 4x2xAWG24/1	green	---	100013206

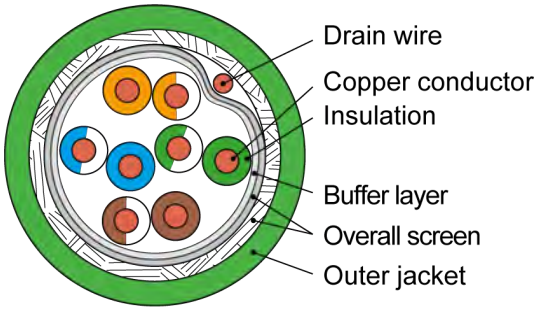
Cable Type: Flexible					
Category	Outer Jacket	Structure	Colour	UL Listing	Part No.
Cat.8.2	LSZH	S/FTP 4x2xAWG26/7	blue	---	100013195
Cat.7	LSZH	S/FTP 4x2xAWG27/7	blue	E344985	100013211
Cat.7	LSZH	S/FTP 4x2xAWG27/7	yellow	E344985	100013212
Cat.7	LSZH	S/FTP 4x2xAWG27/7	grey	E344985	100013077
Cat.7	LSZH	S/FTP 4x2xAWG27/7	green	E344985	100013200
Cat.7	LSZH	S/FTP 4x2xAWG27/7	red	E344985	100013202
Cat.7	LSZH	S/FTP 4x2xAWG27/7	black	E344985	100013213
Cat.7	PVC	S/FTP 4x2xAWG23/7	green	---	100033544
Cat.7	PVC	S/FTP 4x2xAWG26/7	green	---	100013209
Cat.7	PVC	S/FTP 4x2xAWG27/7	green	---	100013207
Cat.7	PE	S/FTP 4x2xAWG26/7	black	---	100013148
Cat.7	PUR	S/FTP 4x2xAWG26/7	green	E344985	100013210
Cat.7	PUR	S/FTP 4x2xAWG27/7	green	E344985	100013208
Cat.6	PVC	U/UTP 4x2xAWG24/7	grey	---	100013078
Cat.5	PVC	SF/UTP 4x2xAWG26/7	green	---	100013203
Cat.5	PVC	F/UTP 4x2xAWG26/7	grey	---	100013067
Cat.5	PVC	F/UTP 4x2xAWG26/7	grey	---	100013068
Cat.5	PVC	U/UTP 4x2xAWG24/7	blue	---	100013071
Cat.5	PVC	U/UTP 4x2xAWG24/7	yellow	---	100013070
Cat.5	PVC	U/UTP 4x2xAWG24/7	grey	---	100013065
Cat.5	PVC	U/UTP 4x2xAWG24/7	grey	---	100013066
Cat.5	PVC	U/UTP 4x2xAWG24/7	green	---	100013072
Cat.5	PVC	U/UTP 4x2xAWG24/7	red	---	100013073
Cat.5	PVC	U/UTP 4x2xAWG24/7	black	---	100013074
Cat.5	PUR	SF/UTP 2x2xAWG22/7	green	E344985	100033545
Cat.5	PUR	SF/UTP 4x2xAWG26/7	green	---	100013204

Telegärtner offers a huge variety of installation and flexible cables, shielded and unshielded, with differentjacket materials and colours. The Euro classes of the installation cables range from Fca to B2ca, and many of our flexible cables are UL listed.

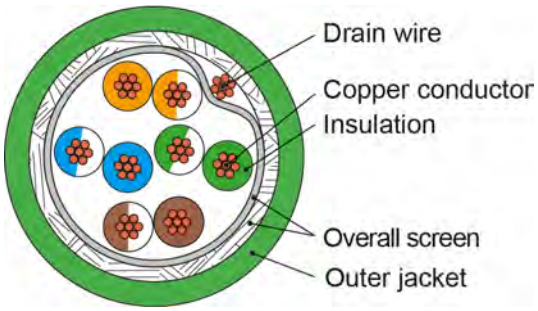
11.1 Copper Cables SF/UTP



Part No.	Description	Colour	Length	Structure	Cable jacket material
100033545	PROFINET Type C	Green	1000 m	SF/UTP 2x2xAWG22/7	PUR

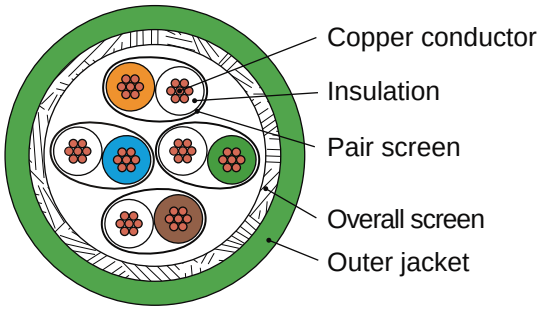


Part No.	Description	Colour	Length	Structure	Cable jacket material
100013206	Installation cable	Green	305 m	SF/UTP 4x2xAWG24/1	PUR
100013205	Installation cable	Green	305 m	SF/UTP 4x2xAWG24/1	PVC

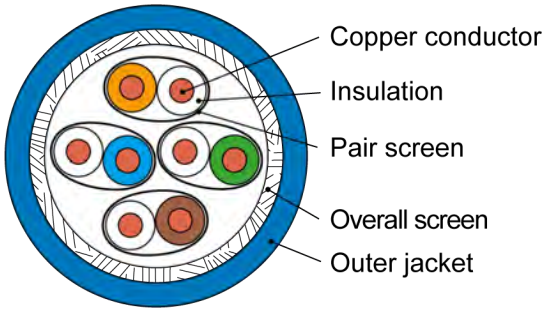


Part No.	Description	Colour	Length	Structure	Cable jacket material
100013204	Installation cable	Green	305 m	SF/UTP 4x2xAWG26/7	PUR
100013203	Installation cable	Green	305 m	SF/UTP 4x2xAWG26/7	PVC

Copper Cables S/FTP 11.2

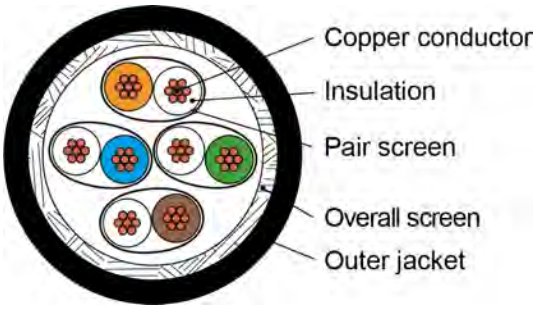


➨ Part No.	Description	Colour	Length	Structure	Cable jacket material
100013211	AMJ 600	Blue	305 m	S/FTP 4x2xAWG27/7	LSZH
100013212	AMJ 600	Yellow	305 m	S/FTP 4x2xAWG27/7	LSZH
100013077	AMJ 600	Grey	305 m	S/FTP 4x2xAWG27/7	LSZH
100013200	AMJ 600	Green	305 m	S/FTP 4x2xAWG27/7	LSZH
100013202	AMJ 600	Red	305 m	S/FTP 4x2xAWG27/7	LSZH
100013213	AMJ 600	Black	305 m	S/FTP 4x2xAWG27/7	LSZH
100013209	STX 600	Green	305 m	S/FTP 4x2xAWG26/7	PVC
100013208	STX 600	Green	305 m	S/FTP 4x2xAWG27/7	PUR
100013207	STX 600	Green	305 m	S/FTP 4x2xAWG27/7	PVC
100013210	STX 600	Green	305 m	S/FTP 4x2xAWG26/7	PUR



➨ Part No.	Description	Colour	Length	Structure	Cable jacket material
100033543	AMJ 1000	Black	500 m	S/FTP 4x2xAWG23/1	PE
100033540	STX 900	Green	500 m	S/FTP 4x2xAWG23/1	PUR
100027773	TOC 900	Grey	500 m	S/FTP 4x2xAWG23/1	FRNC

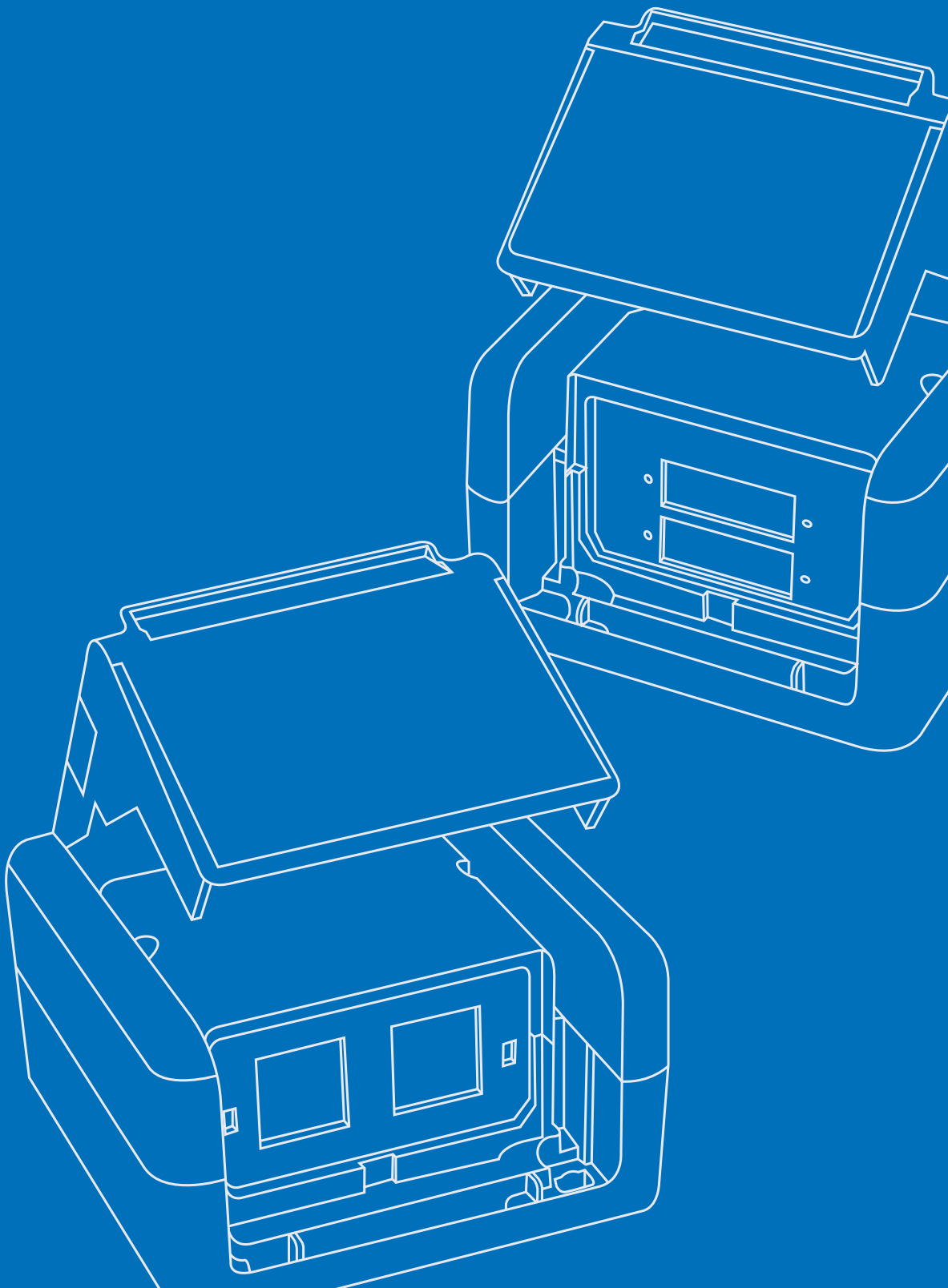
11.2 Copper Cables S/FTP



Part No.	Description	Colour	Length	Structure	Cable jacket material
100013148	Installation cable Cat.7	Black	305 m	S/FTP 4x2xAWG26/7	PE

12

IP44 OUTLETS



IP44 OUTLETS







12.1 RJ45 Outlet IP44 AP 211

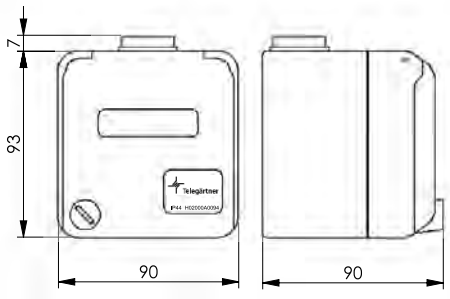
The AMJ Modules and Couplers which are commonly used in the office world are effectively protected against ingress of solid impurities measuring more than 1 mm in diameter, as well as against water jets from all directions, by a housing with protection class IP44. With its compact size of 75x86x58 mm, the housing can not only accommodate up to two data outlets, but is also unbreakable. The grey housing is available with one or two cable entries. A splash-proof transparent label (21x59 mm) permits identification of the ports. The Terminal Outlet (TO) is completed tool-less by snapping in the corresponding modules and coupler into the single or double gang inserts. The SC Duplex adaptor can also additionally be mounted with screws.

Performance Characteristics

- degree of Protection IP44
- little space required for two data outlets (dimensions: 75x86x58 mm)
- unbreakable housing
- either single or double gang inserts for AMJ Modules, Couplers, SC duplex adaptors
- port identification via splash-proof, transparent label
- spring-laoded hinged cover for easy access to the jacks
- tool-free mounting (snap-in) of the AMJ Modules and Couplers
- either snapping and/or screwing SC Duplex adaptors

RJ45 Outlet IP44 AP 12.1





Part No.	Short name	Type	Remarks	Series
100021383	Outlet IP44 with lock	Double outlet surface mounting box, unequipped	Lockable	AMJ-S Modul; AMJ Module K; UMJ Module K, AMJ-SL

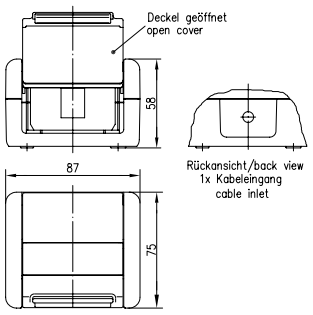


Part No.	Short name	Remarks
100021339	Cable gland M25x1.5	for 2 cables 3-8 mm, grey

12.1

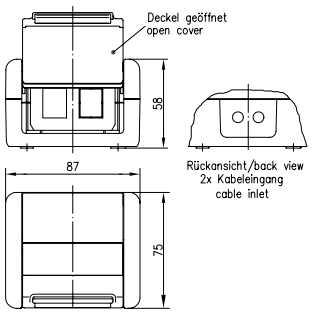
12.1 RJ45 Outlet IP44 AP





Part No.	Short name	Type	Remarks	Series	Colour
100021369	Outlet IP44 AP	Single outlet surface mounting box, unequipped	For AMJ/ UMJ modules and Coupler	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	grey

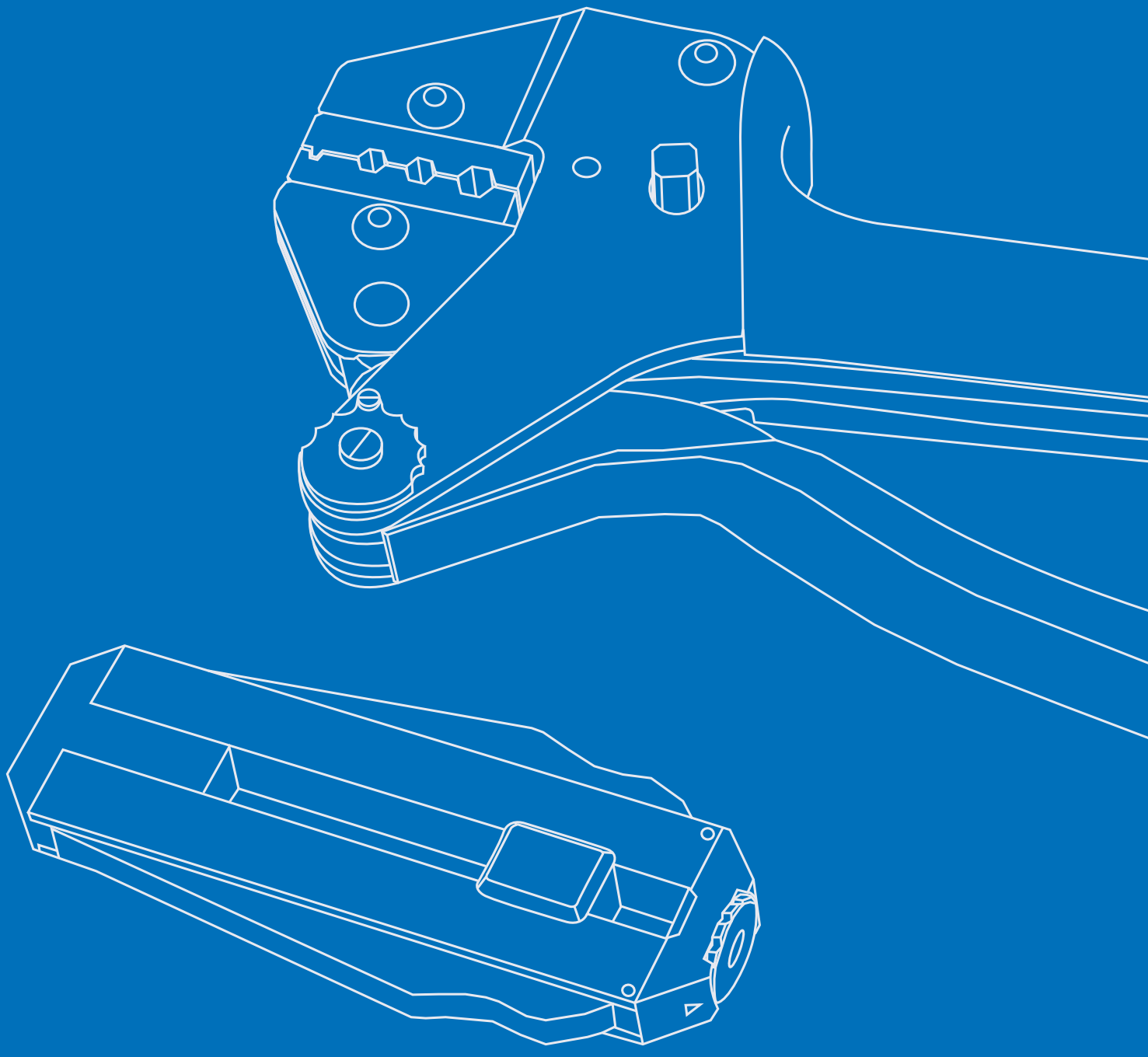




Part No.	Short name	Type	Remarks	Series	Colour
100021370	Outlet IP44 AP	Double outlet surface mounting box, unequipped	For AMJ/ UMJ modules	AMJ-SL; AMJ-S; AMJ Cat.8.1 Module; AMJ Module K; AMJ Coupler K; UMJ Module K; UMJ Coupler K	grey

13

TERMINATION TOOLS



TERMINATION TOOLS







13.1 Accessories for FO Tool Set 215
13.2 Termination Tool Set POF 216
13.3 Other Termination Tools 216

For secure and steady termination on-site, Telegärtner offers a wide assortment of auxiliary means and tools. For terminating a FO connector it is necessary to have tools for preparing the fibers, a crimp tool, polishing materials and a microscope for checking the connector end face. Supplementary sets are available for the termination of POF and LC connectors.

Accessories for FO Tool Set 13.1



Part No.	Description	Remarks
100025940	Crimp insert for ST/SC POF and IP67 plugs	wrench size: 3.23, 4.52 and 8.23
100025939	Crimp insert for ST/SC and IP67 plugs	wrench size: 3.4/4.52, 3.65/4.52 and 8.23



Part No.	Description
100025935	Crimp tool with insert for ST, SC and IP67 plugs



Part No.	Description	Remarks
100025944	Supplementary Set LC (for GOF and PCF)	Crimp insert, Polishing disc, Microscope Conversion Eyepiece, Light rod

13.1 Accessories for FO Tool Set



Part No.	Description	Remarks
100025945	Supplementary Set SC (for POF)	Crimp Insert, Stripping Tool Knife, abrasive paper, polishing foil, polishing pad

13.2 Termination Tool Set POF

Part No.	Description	Remarks
100025857	Polishing foil set for POF	10 pcs. P1500 and 1µ each

Part No.	Description	Remarks
100025923	Polishing disc for POF connectors 2.5 dia.	plastic

13.3 Other Termination Tools



Part No.	Short name	Remarks
100025938	Dismantle tool for copper cable	incl. knives



Part No.	Short name	Remarks
100025804	Crimp Tool Professional	(100007451, 100007452) Crimp Tool Professional (for frequent use) with insert for shielded MP8(8) FS plug; diameter of screen crimp die=5.5 mm; for cable diameter=5.5 - 6.2 mm; life ≥ 10.000 crimping operations

Part No.	Short name
100025937	Torque spanner 0.6 Nm, AF 13, for M12x1 X-coded connection cable

Part No.	Short name
100025936	Torque spanner 0.6 Nm, AF 18, for M12x1 X-coded cable plug

Part No.	Short name
100025866	Crimp insert for crimping tool Ø = 6.4 mm, for cable Ø = 5.5 - 7.3 mm

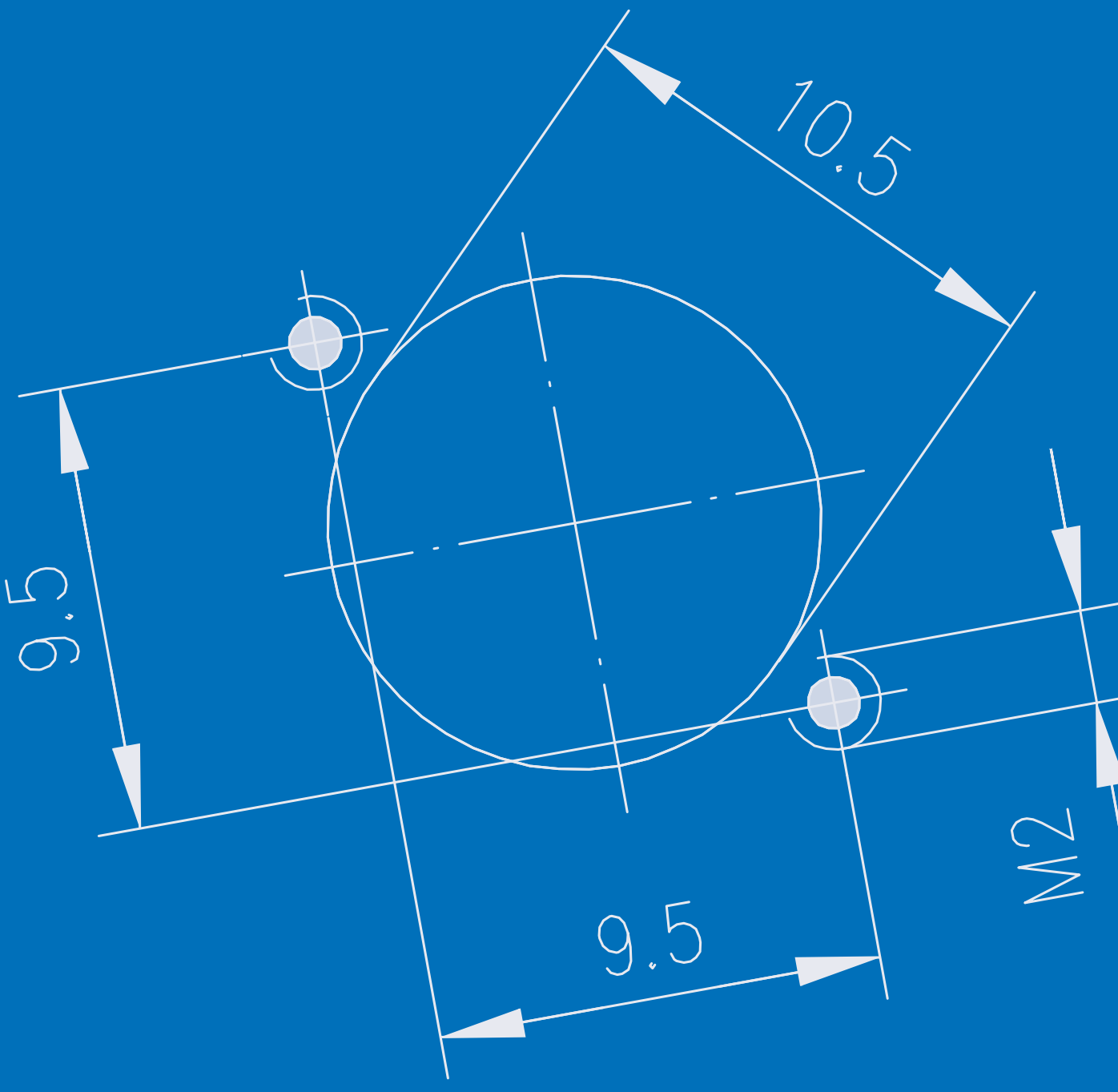


Part No.	Short name	Remarks
100025800	Parallel pressing tool	auxiliary tool for AMJ, UMJ, STX Module and MFP8/UFP8 plug assembly



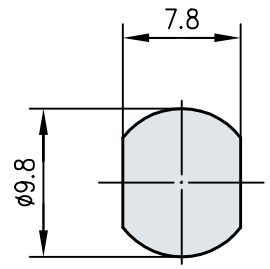
Part No.	Short name	Remarks
100025795	Plier wrench 1 3/8 inch	auxiliary tool for AMJ, STX and UMJ Module; MFP8/UFP8 assembly, 2 in 1 tool: gripper and spanner

MOUNTING DIMENSIONS

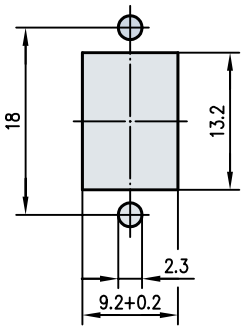


Telegärtner is keen to facilitate your product selection, and to offer you practical support in your daily involvement with connectors. For this reason, on the folloing pages you will find all the panel piercings shown at diverse connectors as a Panel Piercing Code (e.g. Z66), as a kind of „working tool“.

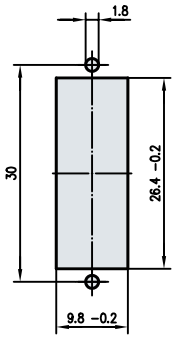
Z64



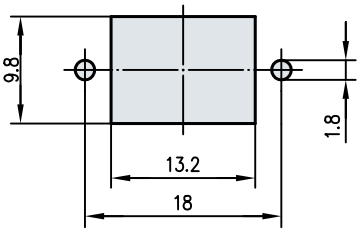
Z66



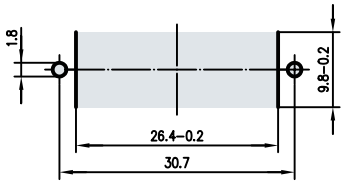
Z70



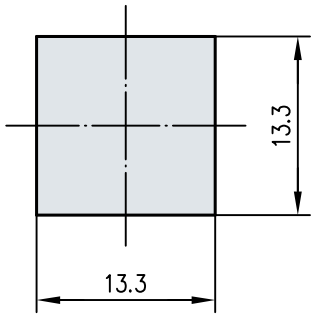
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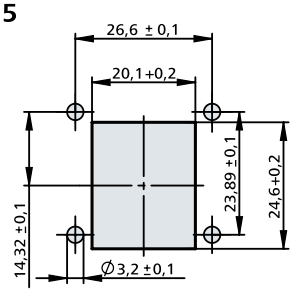
Z93



Z99

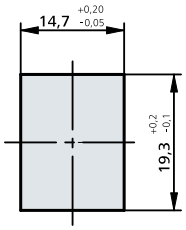


Z115



wall thickness 5mm max.

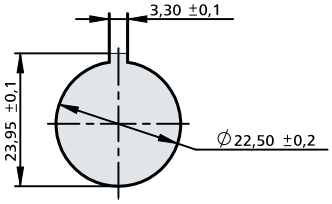
Z121



wall thickness 1,6 ± 0,05 mm

Z122

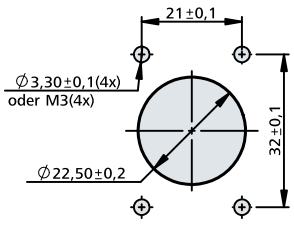
central mounting



wall thickness 1mm till 5mm

Z123

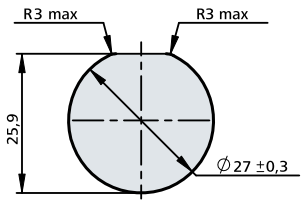
4 hole mounting



wall thickness >1mm

Z124

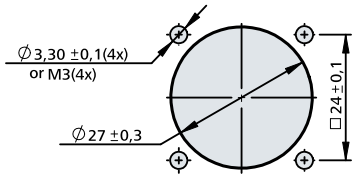
central mounting



wall thickness 1mm till 3mm

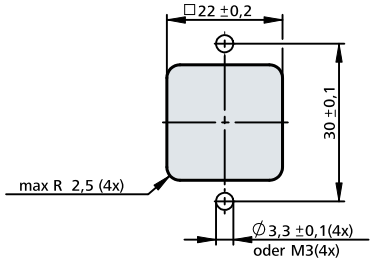
Z125

4 hole mounting



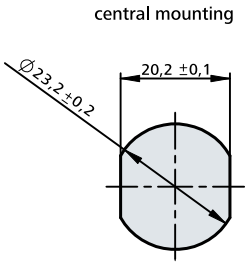
wall thickness >1mm

Z126



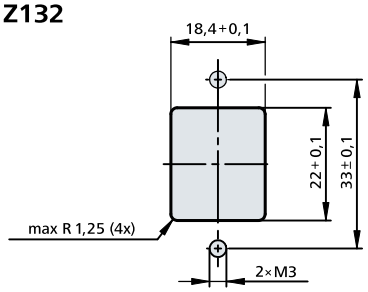
wall thickness >1mm

Z129



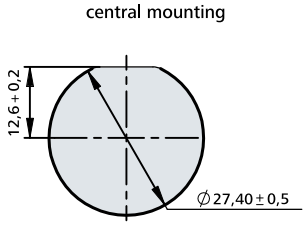
wall thickness 1mm till 5mm

Z132



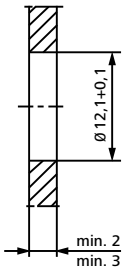
wall thickness >1mm

Z133

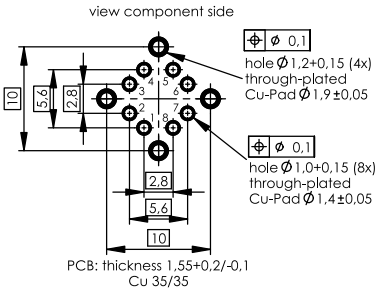


wall thickness 1mm to 5mm

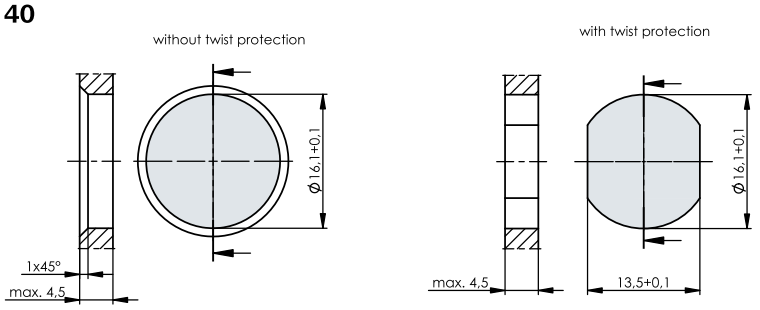
Z138



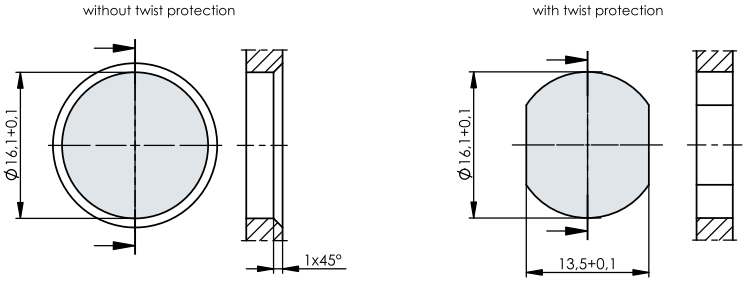
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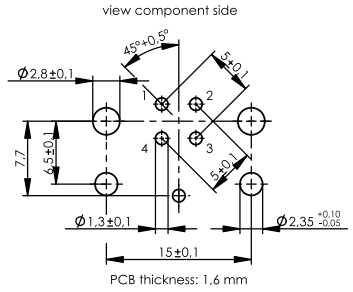
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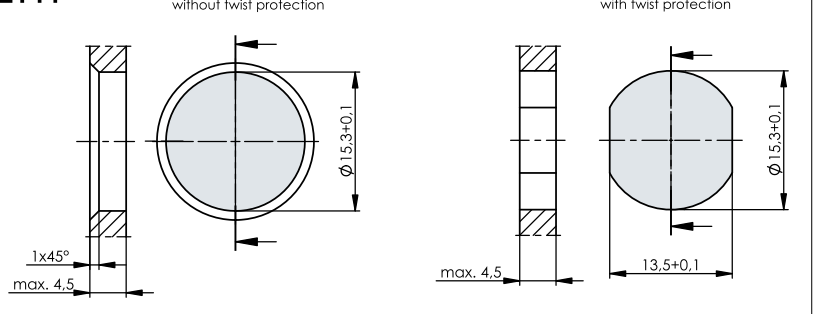
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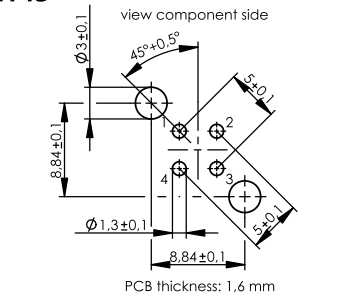
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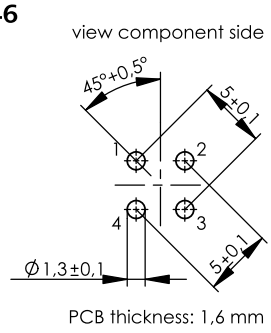
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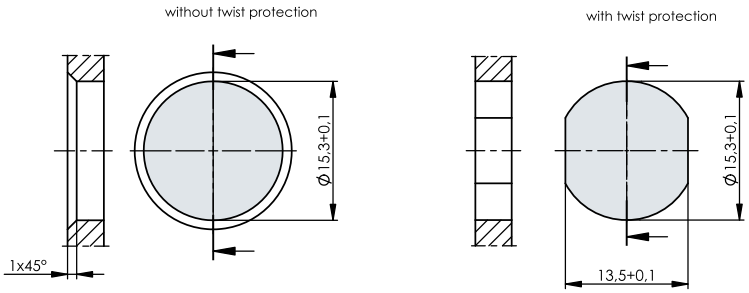
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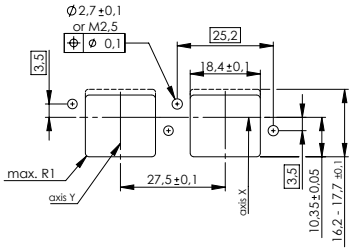
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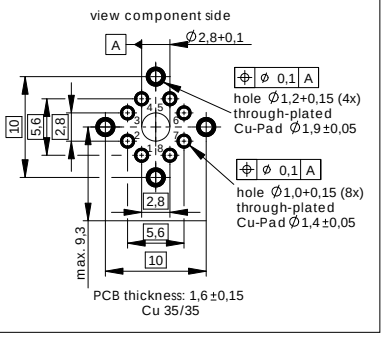
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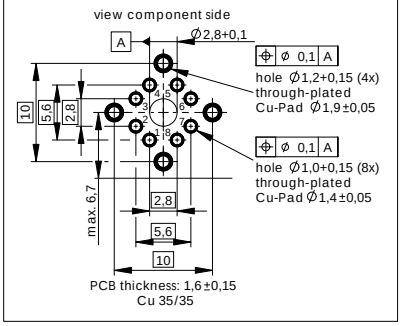
Z157



Z158



Z159



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