

BEST CONTACTS FOR YOUR SUCCESS



Telegärtner

KARL GÄRTNER GMBH

NETWORKING COMPONENTS

COAXIAL CONNECTORS

CABLE ASSEMBLIES

PRECISION TURNED PARTS

PLASTIC INJECTION MOULD PARTS

INDUSTRIAL ELECTRONICS



UMJ Modules Cat.6

The Telegärtner Unshielded Modular System

UMJ Module Cat.6 – unshielded

The new, unshielded UMJ modules / couplers top off the modular system from Telegärtner. The universal installation size of 19.3 x 14.7 mm which is used worldwide ensures a high level of variability with the respective national switch programs and patch panel solutions.

The modules are characterized by optimized wire management preventing crossed pairs (short assembly times, high NEXT reserves). The robust two-part module housing can be connected in best time without special tools and features an integrated strain relief. The IDC termination reliably contacts solid conductors from AWG24/1 to AWG22/1 and stranded cables from AWG26/7 to AWG24/7.

Transmission performance of the UMJ module K Cat.6 and UMJ coupler K Cat.6 surpass the Channel and Permanent link reserves of Class E in accordance with TIA/EIA 568 B2.1 and ISO/IEC 11801, 2nd edition, with high NEXT reserves. This is guaranteed by a fully-automated production of our jack/core at a consistently high standard.

The modules and couplers can be flexibly used in outlets, patch panels, consolidation points and the top hat rail. The transmission performance of the UMJ modules Cat.6 has been certified (for transmission) with de-embedded reference connectors on both sides (RJ45 and IDC sides).

Performance Characteristics



■ Category 6

according to TIA/EIA 568 B2.1, ISO/IEC 11801 2nd edition, EN 60603-7-4

■ De-embedded Cat.6 tested

according to TIA/EIA 568 B2.1 resp. EN 60603-7-4

■ 10 Gigabit-Ethernet Compliant

for 100 m Channel Class E

■ Universal Installation Dimension

universally, world-wide available installation dimension for mounting cut-outs: 19.3 x 14.7 mm

■ Link Reserves

Large NEXT reserves in Permanent Link Class E

■ Real Cat.6 RJ45 Jack/Core

fully-automated production of Cat.6 RJ45 jack/core to guarantee a uniformly high quality standard (transmission characteristic values); mating face: EN 60603-7-4

■ Made in Germany

laser-monitored inspection of the RJ45 contact heights



Technical Data

Installation dimensions: 19.3 x 14.7 mm

Copper conductor diameter :

Solid: 0.40-0.65 mm / AWG26/1-22/1

Stranded: 0.46-0.61 mm / AWG27/7-24/7

Life (operations): min. 750

Benefits

A

Cat.6 Wire Management

- guided wire-sorting technology ensures proper installation for high Class E NEXT reserves in the permanent link
- Telegärtner wire management prevents crossed pairs
- installation-friendly connection technology requiring no special tools



B

New IDC Termination

- new IDC termination for cables with AWG26/1-22/1 solid conductors and for AWG24/7, AWG26/7, AWG27/7 with stranded conductors
- a large bandwidth of copper conductor diameters is covered by the new IDC termination



C


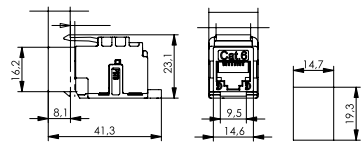

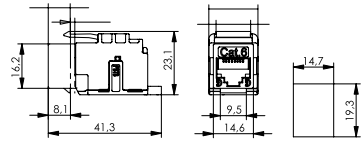

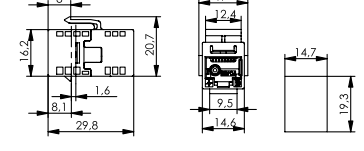

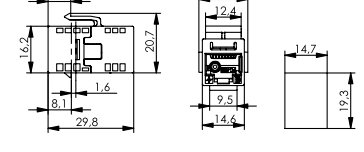

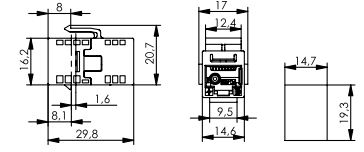

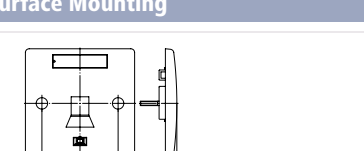

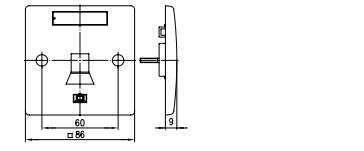

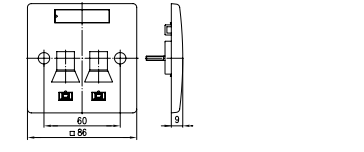

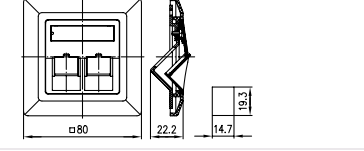

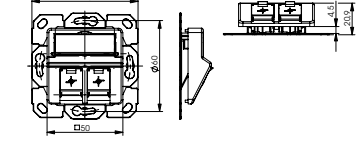

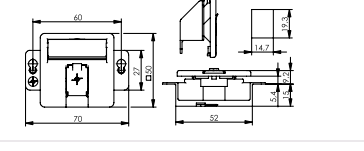

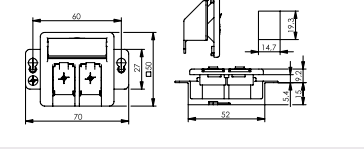

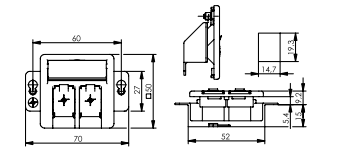

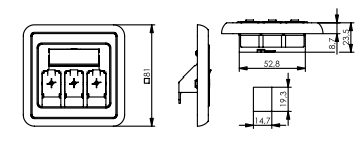

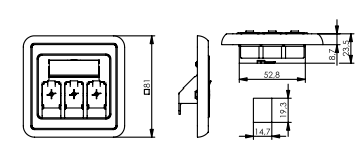
Approved for RJ11/12 plugs (“K”-types)

- The minimum number of mating cycles for RJ45 jacks is 750. The IEC Standard 60603-7-5 does not permit connections with RJ11/12 plugs.
- The user-friendly solution from Telegärtner with regard to “accidental matings with RJ11/12 plugs” is called the UMJ module/coupler K. The newly developed RJ45 jack includes an integrated protection against overbending of the contacts. This protection is offered for all types having a “K” in their product designation.
- The integrated overbend protection still permits 750 mating cycles with RJ11/12 plugs and – despite the fact that the socket contacts 1 and 8 being overbent – ensures secure contacting when mated with RJ45 plugs.


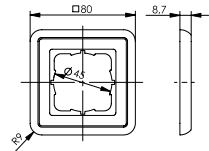

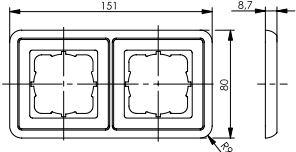

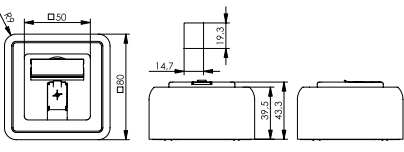

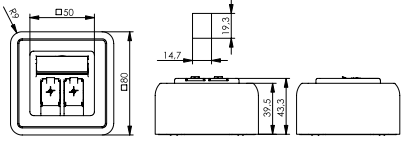

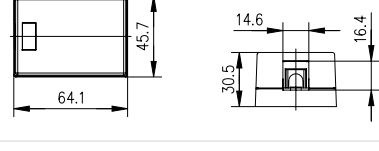

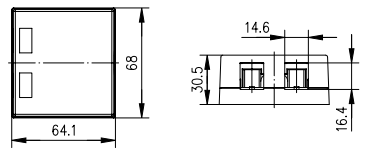

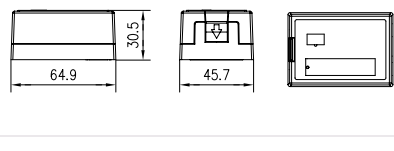

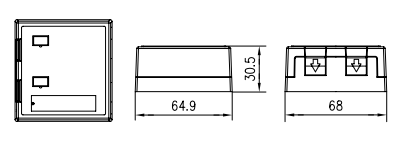

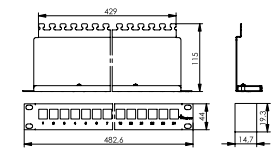

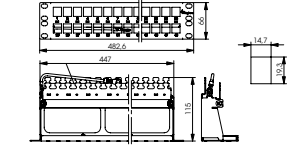


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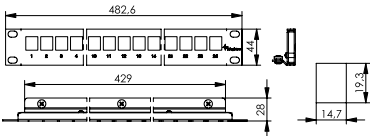

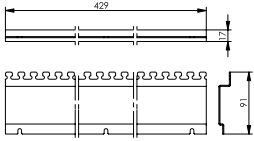

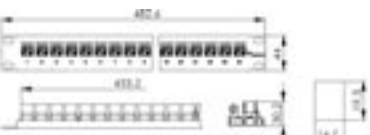

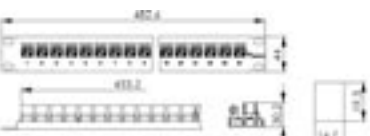

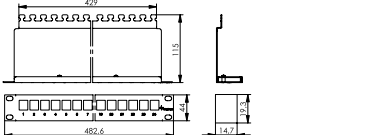

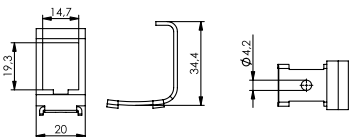




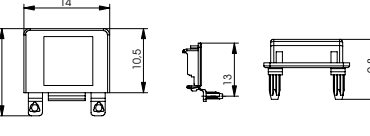
Order Information

Modules / Couplers		Order no.	Description	PU*	Colour
		J00029A0050	UMJ Module K Cat.6, 2-pack, suitable for RJ11/12 plugs, tool-free connectivity	12	
		J00029B0050	UMJ Module K Cat.6, Blister-pack 24 pcs., suitable for RJ11/12 plugs, tool-free connectivity	24	
		J00029K0054	UMJ Coupler K Cat.5e, 4-pack, suitable for RJ11/12 plugs	24	
		J00029A0064	UMJ Coupler K Cat.6, 4-pack, suitable for RJ11/12 plugs	24	
		J00029L0054	UMJ Coupler K Cat.5e, Blister-pack 24 pcs., suitable for RJ11/12 plugs	24	
		J00029B0064	UMJ Coupler K Cat.6, Blister-pack 24 pcs., suitable for RJ11/12 plugs	24	
Cable Duct Mounting / Surface Mounting		Order no.	Description	PU*	Colour
		H02010A0055	Single gang faceplate UK style 86x86, BR**, w/o modules, with shutter and transparent label field	1	alpine white
		H02010A0056	Double gang faceplate UK style 86x86, BR**, w/o modules, with shutter and transparent label field	1	alpine white
		H02010A0040	Double gang faceplate 80x80, 2x UP/50 BR** MC***, w/o modules, with integrated module carrier and shutters	1	alpine white
		H02010A0057	Double gang faceplate 50x50 2x UP/50 BR** MC*** w/o modules for flush mounting	5	alpine white
		H02010A0049	Single gang faceplate 50x50 design 1x UP/50 BR** MC***, w/o modules	5	alpine white
		H02010A0050	Single gang faceplate 50x50 design 1x UP/50 BR** MC***, w/o modules	5	pearl white RAL 1013
		H02010A0051	Double gang faceplate 50x50 design 2x UP/50 BR** MC***, w/o modules	5	alpine white, RAL 1013
		H02010A0052	Double gang faceplate 50x50 design, 2x UP/50 BR** MC***, w/o modules	5	RAL 1013
		H02010A0053	Triple gang faceplate 80x80 design, 3x UP/50 BR** MC***, w/o modules	5	alpine white
		H02010A0054	Triple gang faceplate 80x80 design, 3x UP/50 BR** MC***, w/o modules	5	pearl white RAL 1013

*PU=Packaging Unit **BR=Cable Duct Mounting ***MC=Integrated module carrier, transparent label field and shutter

		B00004A0021Y	Single 80x80 frame design,	5	alpine white
		B00004A0019Y	Single 80x80 frame design,	5	pearl white RAL 1013
		B00005A0009Y	Double 80x151 frame design	5	alpine white
		B00005A0007Y	Double 80x151 frame design	5	pearl white RAL 1013
		H02000A0060	Faceplate 50x50 design, Single gang 1 x AP cable duct for modules/ adaptors without modules/adaptors mating direction 45 degree	5	alpine white
		H02000A0061	Faceplate 50x50 design, Single gang 1x AP cable duct for modules/ adaptors without modules/adaptors mating direction 45 degree	5	pearl white RAL 1013
		H02000A0062	Faceplate 50x50 design, Double gang 2x AP cable duct for modules/ adaptors without modules/adaptors mating direction 45 degree	5	alpine white
		H02000A0063	Faceplate 50x50 design, Double gang 2x AP cable duct for modules /adaptors without modules/adaptors mating direction 45 degree	5	pearl white RAL 1013
		H02000A0064	Single gang surface mounting box 46x64, 1x Ap compact, w/o modules	5	alpine white
		H02000A0065	Double gang surface mounting box 68x64, 2x Ap compact, w/o modules	5	alpine white
		H02000A0071	Single gang surface mounting box 46x64, 1x Ap compact, w/o modules, with shutter and transparent label field	5	alpine white
		H02000A0072	Double gang surface mounting box 68x64, 2x Ap compact, w/o modules, with shutter and transparent label field	5	alpine white
19" Module Carrier without Modules / Couplers		Order no.	Description	PU*	Colour
		H02025A0178	19" Frontplate 1 HU with cable relief for 24 UMJ Modules/Couplers	1	light grey RAL 7035
		H02025A0171	19" Frontplate 1,5 HU with cable relief for 48 UMJ Modules/Couplers	1	light grey RAL 7035

*PU=Packaging Unit **BR=Cable Duct Mounting ***MC=Integrated module carrier, transparent label field and shutter

		H02025A0197	19" Frontplate 1 HU w/o cable relief for 24 UMJ Modules/Couplers	1	light grey RAL 7035
		H02025A0198	Cable relief set for H02025A0197	1	light grey RAL 7035
19" Front Plates with Modules / Coupler		Order no.	Description	PU*	Colour
		J02023K0029	19" Patch panel w/o cable relief incl. 24x UMJ Coupler K Cat.5e (assembled)	1	light grey RAL 7035
		J02023A0030	19" Patch panel w/o cable relief incl. 24x UMJ Coupler K Cat.6 (assembled)	1	light grey RAL 7035
		J02023A0031	19" Patch panel with cable relief incl. 24x UMJ Module K Cat.6	1	light grey RAL 7035
Top-Hat Rail Adaptor		Order no.	Description	PU*	Colour
		H06000A0045	Top-hat rail (DIN) adaptor IP20 for UMJ module Cat.6+ and coupler Cat.5e/6	4	
Accessories		Order no.	Description	PU*	Colour
		N00000A0013	Plier wrench 1 3/8 Zoll, auxiliary tool for the assembly of AMJ modules, one-piece-design of plier and wrench	1	
		H02010B0013	Universal mounting box for AMJ modules/coupler (up to 3 modules) and cable ducts with the height 47, 50, 52 and 55mm, for Top-hat, C- and Combi-rail	5	
		H00030A0008	Blind cover for 19" Frontplate and Ap compact	100	black
		B0001A0016W	Retrofit dust cover flap for AMJ Module, w/o module	100	black

*PU=Packaging Unit **BR=Cable Duct Mounting ***MC=Integrated module carrier, transparent label field and shutter

Patch Cords Cat.6 - U/UTP (PVC) - Wiring 1:1



Length	Order no. - grey	Order no. - green	Order no. - red	Order no. - blue	Order no. -yellow	Order no. - black
0.5 m	L00000A0106	L00000A0108	L00000A0110	L00000A0112	L00000A0114	L00000A0116
1.0 m	L00000A0107	L00000A0109	L00000A0111	L00000A0113	L00000A0115	L00000A0117
2.0 m	L00001A0105	L00001A0107	L00001A0109	L00001A0111	L00001A0113	L00001A0115
3.0 m	L00002A0128	L00002A0130	L00002A0132	L00002A0134	L00002A0136	L00002A0138
5.0 m	L00003A0072	L00003A0073	L00003A0074	L00003A0075	L00003A0076	L00003A0077
7.5 m	L00004A0065	L00004A0066	L00004A0067	L00004A0068	L00004A0069	L00004A0070
10.0 m	L00005A0040	L00005A0041	L00005A0042	L00005A0043	L00005A0044	L00005A0045
15.0 m	L00006A0060	L00006A0063	L00006A0066	L00006A0069	L00006A0072	L00006A0075
20.0 m	L00006A0061	L00006A0064	L00006A0067	L00006A0070	L00006A0073	L00006A0076
25.0 m	L00006A0062	L00006A0065	L00006A0068	L00006A0071	L00006A0074	L00006A0077

Patch Cords Cat.5e - U/UTP (PVC) - Wiring 1:1



Length	Order no. - grey	Order no. - green	Order no. - red	Order no. - blue	Order no. -yellow	Order no. - black
0.5 m	L00000E0010	L00000E0064	L00000E0065	L00000E0063	L00000E0066	L00000E0000
1.0 m	L00000E0011	L00000E0069	L00000E0070	L00000E0068	L00000E0071	L00000E0001
2.0 m	L00001E0005	L00001E0068	L00001E0069	L00001E0067	L00001E0070	L00001E0000
3.0 m	L00002E0004	L00002E0102	L00002E0103	L00002E0101	L00002E0104	L00002E0000
5.0 m	L00003E0003	L00003E0049	L00003E0050	L00003E0048	L00003E0051	L00003E0000
7.5 m	L00004E0003	L00004E0052	L00004E0053	L00004E0051	L00004E0054	L00004E0000
10.0 m	L00005E0003	L00005E0026	L00005E0027	L00005E0025	L00005E0028	L00005E0000
15.0 m	L00006E0015					
25.0 m	L00006E0019					
50.0 m	L00006E0020					

Installation Cable	Order no.	Description	PU*	Colour
Horizontal Cable U/UTP Cat.5e 	L02002A0036 Horizontal Cable	U/UTP Cat.5e 4x2xAWG24/1 solid conductor 1.000 ft. (305 m) carton	1	light grey RAL 7035
Patch Cable U/UTP Cat.5e 	L02002A0040 Patch Cable	U/UTP Cat.5e 4x2xAWG24/7 stranded conductor 1.000 ft. (305 m) carton	1	light grey RAL 7035
Horizontal Cable U/UTP Cat.6 	L02002A0057 Horizontal Cable	U/UTP Cat.6+ 4x2xAWG23/1 solid conductor 1.000 ft. (305 m) carton	1	light grey RAL 7035

*PU=Packaging Unit

Utilize the Contacts within the Telegärtner Group



The Telegärtner group offers you a complete and varied network of services. If you, as a customer, are already working successfully with Telegärtner in one of the following product areas, you can also profit from our outstanding performance in other areas – and exploit the resulting synergies. Please contact your authorised Telegärtner sales partner to receive additional catalogues and information material!



Networking Components

Telegärtner offers an extensive line of connection components for telecommunications and data transmission technology. We can provide, on the one hand, high performance, active and passive components for transmission via copper cables and, on the other, connection and distribution components for fibre 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, Telegärtner can meet your every need with its extensive line of standard products – as well as, naturally, connectors specially designed to meet individual customer specifications.

Cable Assembly

On request, Telegärtner can provide ready-to-use RJ45 and fibre optic patch cords, coaxial cables and a wide range of other cables which we assemble ourselves. The advantage: cablespecific connectors together with reliable, low-loss RF cables. In addition to conventional coax cables, we also pre-assemble semirigid, semi-flex, and corrugated cables.

Precision Turned Parts

Telegärtner Gerätebau manufactures precision turned parts of the highest quality. These include form turned pieces with diameters from 10 mm to 65 mm; straight turned parts with diameters from 6 mm to 26 mm; parts made from brass, aluminium, steel, stainless steel, and other materials. Our extensive knowledge in postprocessing techniques such as grinding and milling, galvanic surface treatment as well as heat treatment round off our service offerings.

Plastic Injection Mould Parts

Under the motto: "integrating ideas, reducing process costs, accelerating production", 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.

Industrial Electronics

Telegärtner Elektronik offers active/passive sub-assemblies for industrial electronics, telephone and entryway speaker systems as well as emergency call systems. We offer everything from development (hardware and software) based on customer specifications, to technical consultation and prototype testing and acceptance by the TÜV (the leading technical approval institution in Germany), up to production in small and large series. Device construction covers every aspect from PCB population and sub-assembly mounting, up to complete device manufacturing.

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