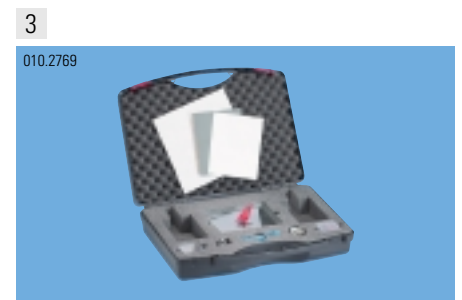
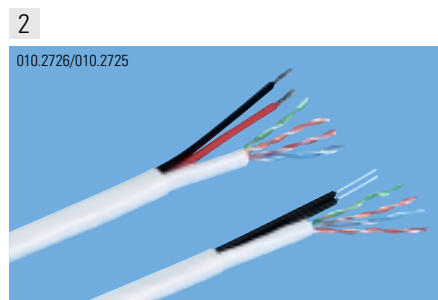


get **more** 010.2936

**More future and modularity**

- Integration of POF and power
- Guaranteed modularity
- Long-term investment protection
- Flexible cabling solution
- Fast and convenient installation

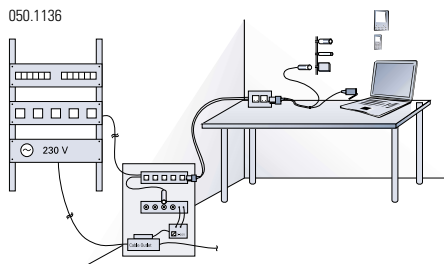




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## RCC45®

### Technical Data



Hybrid structured cabling system including voltage and power supply.

### Power Applications

RCC45® allows the integration of power cabling, with a maximum supply voltage of 50 V at 4 A. For installation, the power contacts are inserted into to the connection openings of the module and clipped to the plug.

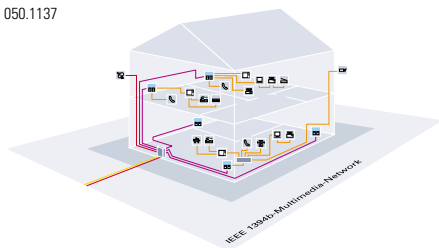
RCC45® modules take all the cables together to terminal equipment such as telephone systems, laptops, palmtops, printers or scanners. The mains supply can be positioned centrally at the hub or somewhere else out of the way.

### Power Contact Specifications

The RCC45® power contacts are made of brass and designed for longevity and superlative reliability. The surfaces are refined with Au/Ni. One distinguishing features of the socket is a finger clip (Cu/Be) with excellent performance characteristics. The connector pin has a round shape ensuring a constant strength for easy plugging in and out.

Current carrying capacity	4 A
Equipment voltage	up to 50 V
Contact resistance	10 mΩ
Mating cycles	500
Surface treatment	0.5 μ Au / 2.5 μ Ni
Environmental category	-10 / +50 °C (10/55/21)
Dielectric strength	contacts 1000 V shield/environment 1500 V
Wire diameter	up to max. AWG 18 (27 x 0.21)
Connection technique	crimping or soldering

050.1137



Structured cabling for IEEE 1394b multimedia network

### POF Applications

RCC45<sup>®</sup> supports the use of plastic optical fiber (POF). The ferrules are inserted into the connection openings of the modules in next to no time. With the R&M Toolkit for POF installations the fiber is assembled in less than one minute and simply inserted into the socket.

POF facilitates an economic and flexible realisation of optical network solutions up to the desktop. This robust plastic fiber lets the vision of an all-optical network move closer. The following applications are in preparation or can already be realised:

- Ethernet over POF
- Video over POF
- IEEE 1394b over POF
- TV over POF

### Specifications of the POF

#### Maximum Values

Parameter	Unit	Min.	Max.
Storage temperature	°C	-50	+85
Operating temperature	°C	-40	+85
Installation temperature	°C	-20	+70
Tensile strength	Single channel	N	50
(short term < 30 min)	Dual channel	N	100
Tensile strength (> 30 min)		N	1
Minimum bending radius (short term)	mm	25	
Minimum bending radius	mm	35	

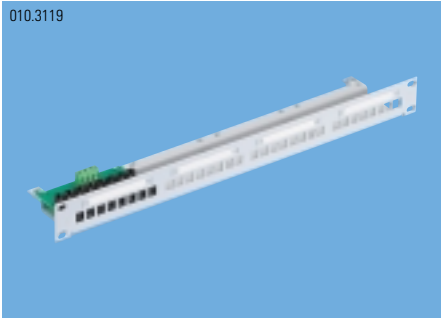
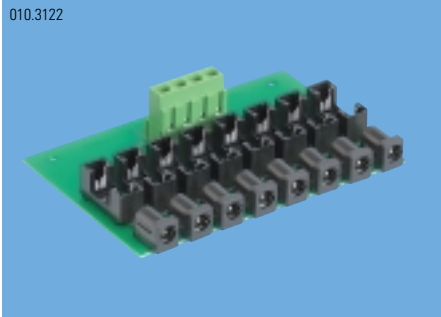

#### Mechanical/Optical Characteristics

Parameter	Unit	Min.	Typ. [1]	Max.
Attenuation fiber	dB/m	0.12	0.19	0.24
Attenuation cable	dB/m	0.15	0.22	0.27
Numerical aperture (> 2m)	[-]	0.46	0.47	0.50
Diameter, core and cladding	mm	0.94	1.00	1.06
Diameter primary coating	mm	2 x 2.13	2 x 2.20	2 x 2.27
Propagation delay constant	ns/mm		5.0	
Refractive index	core	[-]	1.492	
	cladding	[-]	1.417	

Note: typical data at 25 °C.


**RCC45<sup>®</sup> Accessories**  
**Connection Module and Adapter**

Ordering Information	Description	Packing Unit	Part Number
<p>010.2721</p> 	<p><b>RCC45<sup>®</sup> Connection Module</b>  <b>Cat. 5e, 1xRJ45/u</b>            RCC45<sup>®</sup> connection module featuring one unshielded RJ45 port. Including dust cover, cable tie and instruction manual.</p>	10	R308254
<p>010.2727.5/010.2727.6</p> 	<p><b>RCC45<sup>®</sup> Adapter POF</b>            Adapter for one F-05 or F-07 plug connector. Including dust covers and instruction manual. Colour: white/RAL 9010</p>	10	R308255
<p>010.2727.3/010.2727.2/010.2727.11</p> 	<p><b>RCC45<sup>®</sup> Ferrule Set POF, 980/1000/2200</b>            Each set includes:            – Two RCC45<sup>®</sup> ferrules            – RCC45<sup>®</sup> clip            – RCC45<sup>®</sup> dust cover</p> <p>In addition, the 10-piece packing unit contains:            – Instruction manual            – RCC45<sup>®</sup> turning tool            – RCC45<sup>®</sup> clamping tool</p>	10	R307419
<p>010.2727.3/010.2727.2/010.2727.8</p> 	<p><b>RCC45<sup>®</sup> Module Contact Set, Power</b>            This set includes:            – Two RCC45<sup>®</sup> module contacts            – RCC45<sup>®</sup> clip            – RCC45<sup>®</sup> dust cover            – Instruction manual</p>	10	R308256
<p>010.2767/010.2727.9</p> 	<p><b>RCC45<sup>®</sup> Plug Contact Set, Power</b>            This set includes:            – Two RCC45<sup>®</sup> plug contacts            – RCC45<sup>®</sup> plug adapter, top part            – RCC45<sup>®</sup> plug adapter, bottom part            – Instruction manual</p>	10	R308257

Ordering information	Description	Packing unit	Part number
<p>010.3119</p> 	<p><b>RCC45<sup>®</sup> 19" 1U Patch Panel Power</b>  19" 1U patch panel for 4 RCC45<sup>®</sup> power print modules (32 power jacks)</p> <p>Supplied:</p> <ul style="list-style-type: none"> <li>– 19" 1U patch panel</li> <li>– 1 x RCC45<sup>®</sup> power print module of 1 x 8 outlets (R310336)</li> <li>– Labelling strips</li> <li>– Fastening screws for print</li> <li>– Wiring instructions</li> </ul>	1	R310363
<p>010.3122</p> 	<p><b>RCC45<sup>®</sup> Print Module Power, 1 x 8 outlets</b>  Print module for the RCC45<sup>®</sup> 19" 1U Patch Panel Power.</p> <p>Max. in: 32A (4 mm<sup>2</sup>)  Max. out: 4A 48 V</p> <p>Print module comprises:</p> <ul style="list-style-type: none"> <li>8 power jacks 2,5 x 5,5 mm</li> <li>8 fuse holders 5 x 20 mm (without fuses)</li> <li>1 connection 4 x 4 mm<sup>2</sup></li> <li>– Wiring instructions</li> </ul>	1	R310336
<p>010.1673</p> 	<p><b>Protective Conductor Terminal 6 mm<sup>2</sup></b>  For the simple and efficient earth connection. Accommodates one stranded cable with a max. cross section of 6 mm<sup>2</sup>. Can be used with all metal patch panels (1U 24 port and voice panel 50 x RJ45) as well as with Global System.</p>	1	R302150

## RCC45® Installation Cables

Ordering Information	Description	Packing Unit	Part Number
 <p>010.2725</p>	<p><b>RCC45® Hybrid Cable U/UTP Cat. 5e + POF, LSOH</b> Unshielded installation cable, 100 Ohm, for frequencies up to 125 MHz. Dimensions: 4 x 2 x 0.5 mm and 2 x SI-POF 980/1000</p>	305 m	R308592
 <p>010.2726</p>	<p><b>RCC45® Hybrid Cable U/UTP Cat. 5e + Power, LSOH</b> Unshielded installation cable, 100 Ohm, for frequencies up to 125 MHz. Dimensions: 4 x 2 x 0.5 mm and 2 x AWG 18 (1 mm<sup>2</sup>)</p>	305 m	R308599
 <p>010.2724</p>	<p><b>RCC45® Hybrid Cable U/UTP Cat. 5e + tube, LSOH</b> Unshielded installation cable, 100 Ohm, for frequencies up to 125 MHz. Dimensions: 4 x 2 x 0.5 mm and empty tube, Ø 6 mm, plus drawing cord</p>	305 m	R308852

 Technical data available on request.

010.2769



All it needs for the field assembly of the POF screw-ferrules are the RCC45 tools. The compact and efficient set, limited to a few parts, allows fast and easy handling.

**Features:**

- Easy handling
- 2 ferrules in less than 2 min.
- Light and compact
- Mains supply independent
- No adhesives or crimping
- Ferrules are reusable

**Ordering Information****Description****Packing Unit****Part Number**

010.2769

**RCC45® Toolbox POF, complete**

For the field-assembly of POF ferrules.

Supplied:

- Stripping tool
- Spare blades
- Mounting kit for ferrules
- Polishing plate
- Polishing pad
- Paper clip
- Sanding sheet
- Polishing sheet
- Cleaning tissues
- Instructions manual

Without crimping pincers

Without measuring equipment

1

R308366

010.2770

**Measuring Equipment POF**

To measure the attenuation of the POF connection at wavelength 650 nm

This set includes:

- Source (with F-05 adapter)
- Power meter (with F-05 adapter)
- Instruction manual
- Without measuring cable, see page 215 (F-05/F-05)

1

R308604

010.2771

**RCC45® Crimping Pincers for Power Contacts**

4-point crimping pincers to effectuate the power contacts in module and plug.

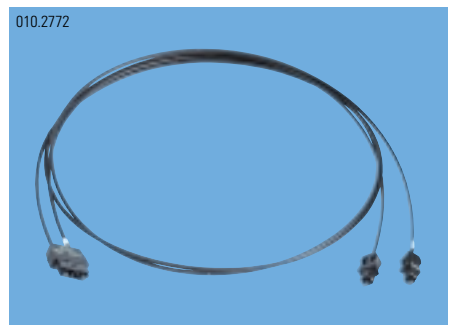


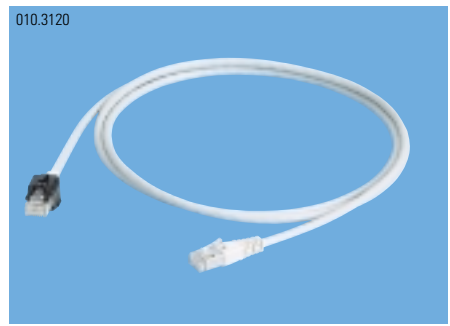
This set includes:

- Crimping pincers
- Mounting aid
- Instruction manual

1

R308853

**RCC45® Patch Cable  
(POF, Power)**

Ordering Information	Description	Packing Unit	Part Number
 <p>010.2772</p>	<p><b>POF Patch Cord 2 x 980/1000/2200</b>            F-07 – F-07, length 1 m            F-07 – F-07, length 2 m            F-07 – SMI, length 1 m            F-07 – SMI, length 2 m</p> <p><b>RCC45® Measuring Cable</b>            Measuring cable to the measuring equipment, see page 214            F07 – F05, length 1 m</p>	<p>10 10 On request On request</p> <p>10</p>	<p>R308589 R308591 On request On request</p> <p>R308854</p>
 <p>010.3123/010.3125</p>	<p><b>RCC45® Connection Cable Power (Outlet)</b>            This power connection cable for use at the workplace can be subsequently mounted to standard R&amp;M patch cord.</p> <p>Supplied:            Side A: RCC45® power adapter            Side B: Interchangeable DC Plug Set with adjustable polarity tips.            Incl. coaxial Power Plug: 2.1 x 5.5 mm              2.5 x 5.5 mm              1.7 x 4.0 mm              1.4 x 3.5 mm              1.1 x 3.0 mm              0.7 x 2.35 mm            Phone Plug: 3.5 mm              2.5 mm</p>	<p>10 10</p>	<p>R310310 R310311</p>
 <p>010.3123</p>	<p><b>RCC45® Patch Cord Power (Panel)</b>            This power patch cord can be subsequently mounted to standard R&amp;M patch cord plug.</p> <p>Supplied:            Side A: RCC45® power adapter            Side B: Coaxial Power Plug 2.5 x 5.5 mm, matching the print module (R310336)</p>	<p>10 10</p>	<p>R310307 R310308</p>
 <p>010.3120</p>	<p><b>RCC45® PoE Patch Cord, 5e, U/UTP, PVC</b>            Connection cable for Power-over-Ethernet (IEEE 802.3af) applications. Two conductor pairs from the cord are routed into the RCC45® power adapter.            max. 350 mA, max. 48 V</p> <p>Supplied:            Side A: RJ45 with RCC45® power adapter            Side B: RJ45</p>	<p>10 10</p>	<p>R309668 R309670</p>



Ordering Information	Description	Packing Unit	Part Number
<p>010.2773</p> 	<p><b>RCC45<sup>®</sup> Polishing Plate POF</b> 4-hole polishing plate with a hard-metal plate for 2.5 mm-POF ferrules.</p>	1	R308419
<p>010.2774</p> 	<p><b>RCC45<sup>®</sup> Stripping Tool POF</b> Special 2-blade stripping tool to cut and strip in one single go.</p>	1	R308421
<p>010.2727.7/010.2727.10</p> 	<p><b>RCC45<sup>®</sup> Spare Blades Set POF</b> Special blades for R308421 Supplied: 10 spare blades 1 setting gauge Installation manual For fiber type 980/1000/2200</p>	1	R308367
<p>010.2775</p> 	<p><b>RCC45<sup>®</sup> Consumables POF</b></p> <p><b>RCC45<sup>®</sup> Sanding Foil POF</b> To pre-polish the POF</p> <p><b>RCC45<sup>®</sup> Polishing Foil POF</b> To polish the POF</p> <p><b>RCC45<sup>®</sup> Cleaning Tissue POF</b> Dry</p>	10	R308360
<p>020.2776</p> 	<p><b>Module Holder Tool</b> A small tool that can do great things: – Remove the module holder plate – Remove the POF adapter frame – Remove the clip</p>	1	R308261

