



All dimensions are in mm; tolerances acc. ISO 2768 m-H

**Properties**

Rosenberger Quad Connector (RQC), hybrid type, 2 singlemode or multimode fibers and 2 electrical contacts, straight plug, cable Ø 7.5 mm, with undetachable protection cap

**Interface**

No Standard

**Material for connectors**

Ferrule :	2X Zirconia ceramic, Ø1.25 mm
Body :	Brass, flash white bronze plating
Gasket	Silicon Rubber
Crimp Sleeve	Copper, nickel plating
Boot :	TPV
Electrical contacts	2X CuBe, gold plating

**Optical data**

Insertion Loss :	Typical	max.
	0.25 dB	0.50 dB
Return Loss :	S/M	≥ 50 dB(PC) ≥ 65 dB(APC)
	M/M	≥ 20 dB

**Mechanical data**

Mating cycle	≥ 500
Strain relief	700 N(dependent on the cable type)
Coupling torque	1.0 to 2.0 Nm

**Electrical data**

Voltage	48 V max(Indoor) and 30 V max(Outdoor).
Current	2 A max.

**Environmental data**

Operation temperature range -40°C to +85°C  
 Storage temperature range -40°C to +85°C  
*Limit for touchable metal parts: the limit for touchable metal parts is 60°C. The equipment is therefore suitable for operation area up to 55°C.*

*Limitations are possible due to the used cable type*

Vibration	IEC 61300-2-1
Salt mist	IEC 61300-2-26. 30 days
Ingress Protection, mated	EN 60529 IP 67

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RoHS

Compliant

**Suitable cables**

Fiber

S/M, G652D, G657A1, G657A2  
 M/M, 62.5/125µm, 50/125µm OM2, OM3 and OM4  
 Ø 7.5mm Hybrid Cable  
 Simplex cable Ø 0,9 or 1.8mm

Round Cable Types :  
 Receptacle cords:

**Packaging**

Standard Packaging

**Warning:**

**The electrical contacts of the connector system 2+2Core are protected against direct contact. When connecting and disconnecting, make sure that the lines are de-energized.**

**Indoor applications:**

**the plug-in systems 2 + 2Core may only with max. 48V and 2A are operated.**

**Outdoor applications:**

**the plug-in systems 2 + 2Core may only with max. 30V and 2A are operated.**

**Warning:**

**It is essential to ensure that the cleaning of the connector lines are de-energized and the (laser) light sources are switched off. A complete separation we recommend**

While the information has been carefully compiled to the best of our knowledge, nothing is intended as representation or warranty on our part and no statement herein shall be construed as recommendation to infringe existing patents. In the effort to improve our products, we reserve the right to make changes judged to be necessary.

Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
Y.Zhang	16.05.2017	H.Jungbäck	16.05.2017	003	---	Y.Zhang	16.05.2017