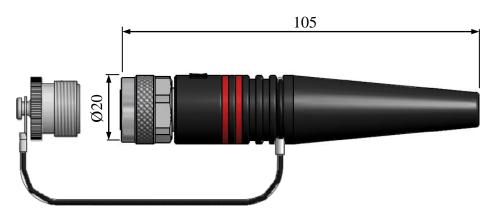
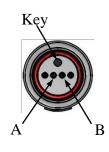
Technical Data Sheet

Rosenberger

RQC Hybrid Connector (Male)

98 RQCS 180-101





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 : Body : Gasket Crimp Sleeve Boot :

Electrical contacts

2X Zirconia ceramic, Ø1.25 mm Brass, flash white bronze plating Silicon Rubber Copper, nickel platting

TP\/

2X CuBe, gold platting

Optical data

Insertion Loss:

Return Loss : S/M M/M

Mechanical data

Mating cycle Strain relief Coupling torque

Electrical data

Voltage Current ≥ 500

Typical

0.25 dB

≥ 20 dB

700 N(dependent on the cable type) 1.0 to 2.0 Nm

 \geq 50 dB(PC) \geq 65 dB(APC)

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

max.

0.50 dB

Environmental data

 $\begin{array}{ll} \mbox{Operation temperature range} & -40\mbox{°C to } +85\mbox{°C} \\ \mbox{Storage temperature range} & -40\mbox{°C to } +85\mbox{°C} \\ \end{array}$

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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Technical Data Sheet

Rosenberger

RQC Hybrid Connector (Male)

98 RQCS 180-101

RoHS

Compliant

Suitable cables

Fiber

Round Cable Types : Receptacle cords:

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

Packaging

Standard Packaging

Warning:

The electrical contacts of the connector system are protected against direct contact. When connecting and disconnecting, make sure that the lines are de-energized. Indoor applications:

The plug system may only be operated at max. 48 V / 2 A. Outdoor applications:

The plug system may only be operated at max. 30 V / 2 A.

Warning:

It is essential to ensure while cleaning the connector lines are supposed to be de-energized and the (laser) light sources are switched off. We recommend a complete separation.

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

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