



**Function Description**

This part is a coaxial cable assembly for telecommunication equipment. It consists of 1/2" flexible coaxial cable with FRNC jacket and two 4.3-10 male connectors. The assembly is waterproof in mated condition and UV protected.

**Available Variants**

The assembly is available in lengths from 0.5 m to 10 m in intervals of 0.5 m. Different feet and inch lengths are available on request.

**Assembly Parts**

Connector	4.3-10 male (screw-type) connectors plated with white bronze
Cable	S-Link 1/2"R, flame retardant jacket
Marking 1	Direct print onto the cable or one wrapping label Marking includes manufacturer, part nr. & batch no.
Marking 2	Direct print onto the cable or on wrapping label Marking includes "Rosenberger factory made" Position in the middle of the cable
Bend Protection	molding material PE compound with flame retardant

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**Electrical Data**

Impedance	50 Ω
Frequency	DC to 3.7 GHz
Return loss	
450 – 470 MHz	≥ 32 dB
600 – 960 MHz	≥ 32 dB
1.7 - 2.2 GHz	≥ 30 dB
2.2 - 2.7 GHz	≥ 28 dB
3.4 – 3.7 GHz	≥ 26 dB
Insertion loss typ.	
450 – 470 MHz	≤ 0.05 dB/m (cable) + 0.05 dB * √f (GHz)
600 – 960 MHz	≤ 0.07 dB/m (cable) + 0.05 dB * √f (GHz)
1.7 – 2.2 GHz	≤ 0.10 dB/m (cable) + 0.05 dB * √f (GHz)
2.2 – 2.7 GHz	≤ 0.13 dB/m (cable) + 0.05 dB * √f (GHz)
3.4 – 3.7 GHz	≤ 0.15 dB/m (cable) + 0.05 dB * √f (GHz)
Intermodulation (3rd order @ 2 x 20 W)	typ. max.
	≤ -120 dBm ≤ -117 dBm
Relative Velocity of Propagation	88 %
DC breakdown voltage	2500 V

**Mechanical Data**

Coupling torque (recommended)	5 to 8 Nm
Spanner flat on coupling nut	22 mm
Cable diameter, jacket	16 mm typ.
Tensile strength	1100 N
Recommended hanger spacing	0.8 m
Minimum bend radius single	70 mm*
Minimum bend radius repeated	125 mm*
*Bending starts behind connector incl. the kink protection	

**Environmental Data**

Operation temperature range	-40 °C to +85 °C
Installation temperature range	-25 °C to +60 °C
Degree of protection	IEC 60529, IP68 1 bar for 1 h (mated)
RoHS	compliant

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
F. Fraunhofer	08.08.2018	Chr. Janßen	27.08.2018	a00	18-s300	Fl. Öllerer	27.08.2018
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