



**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 7-16 male connectors. The assembly is waterproof in mated condition, UV protected and fire retardant.

**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**

Connectors	7-16 male connectors plated with white bronze
Cable	S-Link 1/2"R, FRNC jacket Flame retardant acc. to IEC 60332-3-24 Cat. C)
Marking 1	Direct print onto the cable or on 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 or anti-kink sleeve

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**Electrical Data**

Impedance	50 Ω		
Frequency	DC to 3.8 GHz		
Return loss	L ≤ 10 m	L > 10 m	L > 20 m
380 – 470 MHz	≥ 32 dB	≥ 30 dB	≥ 28 dB
600 – 960 MHz	≥ 32 dB	≥ 30 dB	≥ 28 dB
1.4 – 2.7 GHz	≥ 28 dB	≥ 26 dB	≥ 24 dB
3.4 – 3.8 GHz	≥ 23 dB	≥ 21 dB	≥ 19 dB
Insertion loss typ.			
DC – 1 GHz	≤ 0.08 dB/m (cable) + 0.01 dB * √f (GHz)		
1 – 2.2 GHz	≤ 0.13 dB/m (cable) + 0.01 dB * √f (GHz)		
2.2 – 2.7 GHz	≤ 0.15 dB/m (cable) + 0.01 dB * √f (GHz)		
2.7 – 3.8 GHz	≤ 0.16 dB/m (cable) + 0.01 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)	25 to 30 Nm
Spanner flat on coupling nut	32 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.

For the installation of the electrotechnical equipment, particular electrotechnical expertise is required.



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A. Gasteiger	22.02.2016	F. Fraunhofer	20.12.2023	d00	23-2111	Fl. Öllerer	20.12.2023
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