



**Function Description**

This part is a coaxial cable assembly for telecommunication equipment. It consists of 1/2" super flexible coaxial cable with PE jacket, one N male and one 7-16 female connector. 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**

Connectors	N male & 7-16 female connector plated with white bronze
Cable	S-Link 1/2"S, PE jacket
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 TPE compound 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	≤ 0.12 dB/m (cable) + 0.01 dB * √f (GHz)		
1 – 2.2 GHz	≤ 0.18 dB/m (cable) + 0.01 dB * √f (GHz)		
2.2 – 2.7 GHz	≤ 0.20 dB/m (cable) + 0.01 dB * √f (GHz)		
2.7 – 3.8 GHz	≤ 0.24 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	83 %		
DC breakdown voltage	2500 V		

**Mechanical Data**

Coupling torque N (recommended)	0.7 to 1.1 Nm
Spanner flat on N coupling nut	18 mm
Spanner flat on 7-16 jack	20 mm
Cable diameter, jacket	13.5 mm typ.
Tensile strength	450 N
Recommended hanger spacing	0.8 m
Minimum bend radius single	25 mm*
Minimum bend radius repeated	35 mm*
*Bending starts behind connector incl. the kink protection	

**Environmental Data**

Operation temperature range	-40 °C to +80 °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.



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
M. Wimmer	20.12.2013	Chr. Janßen	07.10.2020	c00	20-1927	B. Wollitzer	07.10.2020
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