



Function Description

This part is a coaxial cable assembly for telecommunication equipment. It consists of 1/4" super flexible coaxial cable with PE jacket, one N male and 4.3-10 male 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 & 4.3-10 male (screw-type) connector plated with white bronze
Cable	S-Link 1/4"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 6.0 GHz	
Return loss	L ≤ 10m	L > 10m
450 – 470 MHz	≥ 28 dB	≥ 26 dB
600 – 960 MHz	≥ 28 dB	≥ 26 dB
1.4 – 2.7 GHz	≥ 26 dB	≥ 24 dB
3.4 – 3.8 GHz	≥ 23 dB	≥ 21 dB
Insertion loss typ.		
DC – 1 GHz	≤ 0.20 dB/m (cable) + 0.01 dB * √f (GHz)	
1 – 2.2 GHz	≤ 0.30 dB/m (cable) + 0.01 dB * √f (GHz)	
2.2 – 2.7 GHz	≤ 0.34 dB/m (cable) + 0.01 dB * √f (GHz)	
2.7 – 4.0 GHz	≤ 0.43 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	2000 V	

Mechanical Data

Coupling torque N (recommended)	0.7 to 1.1 Nm
Coupling torque 4.3-10 (recommended)	5 to 8 Nm
Spanner flat on N coupling nut	18 mm
Spanner flat on 4.3-10 coupling nut	22 mm
Cable diameter, jacket	7.7 mm typ.
Tensile strength	500 N
Recommended hanger spacing	0.6 m
Minimum bend radius single	13 mm*
Minimum bend radius repeated	25 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
A. Gasteiger	04.03.2016	F. Fraunhofer	04.08.2021	a00	21-s070	S. Huber-Siegl	04.08.2021
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