



Function Description

This part is a coaxial cable assembly for telecommunication equipment. It consists of 1/2" flexible coaxial cable with PE 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

Connectors	4.3-10 male (screw-type) connectors plated with white bronze
Cable	S-Link 1/2"R, 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 4.2 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 – 4.2 GHz	≥ 25 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 – 4.2 GHz	≤ 0.17 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)	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

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



Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
F. Fraunhofer	22.01.2014	F. Fraunhofer	11.12.2023	e00	23-2111	F. Öllerer	11.12.2023
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