



Function Description

This part is a coaxial cable assembly for telecommunication equipment. It consists of 3/8" super flexible coaxial cable with FRNC jacket one 7-16 male connector and one 4.3-10 female connector. The assembly is waterproof in mated condition, fire retardant 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	7-16 male and 4.3-10 female connector plated with white bronze
Cable	3/8" super flexible, FRNC 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 PE compound with flame retardant

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RF_35/05.10/6.0

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	≥ 30 dB	≥ 28 dB	≥ 26 dB
600 – 960 MHz	≥ 30 dB	≥ 28 dB	≥ 26 dB
1.4 – 2.7 GHz	≥ 26 dB	≥ 24 dB	≥ 22 dB
3.4 – 3.8 GHz	≥ 23 dB	≥ 21 dB	≥ 19 dB
Insertion loss typ.			
DC – 1 GHz	≤ 0.14 dB/m (cable) + 0.01 dB * √f (GHz)		
1 – 2.2 GHz	≤ 0.21 dB/m (cable) + 0.01 dB * √f (GHz)		
2.2 – 2.7 GHz	≤ 0.24 dB/m (cable) + 0.01 dB * √f (GHz)		
2.7 – 3.8 GHz	≤ 0.31 dB/m (cable) + 0.01 dB * √f (GHz)		
Intermodulation (3rd order @ 2 x 20 W)	typ.	max.	
	≤ -120 dBm	≤ -117 dBm	
DC breakdown voltage	2500 V		

Mechanical Data

Coupling torque 7-16 (recommended)	25 to 30 Nm
Coupling torque 4.3-10 (recommended)	5 to 8 Nm
Spanner flat on 7-16 coupling nut	32 mm
Spanner flat on 4.3-10	20 mm
Cable diameter, jacket	10.2 mm typ.
Tensile strength	500 N
Recommended hanger spacing	0.8 m
Minimum bend radius single	13 mm*
Minimum bend radius repeated	25 mm*

*Bending starts behind connector incl. 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	09.01.2014	Chr. Janßen	25.11.2020	c00	20-1927	B. Wollitzer	25.11.2020
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany www.rosenberger.de						Tel. : +49 8684 18-0 Email : info@rosenberger.de	
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