



**Function Description**

This part is a coaxial hybrid cable assembly for telecommunication equipment. It consists of 1/4" super flexible coaxial cable with FRNC jacket, one MQ4 plug and four 4.3-10 jack 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 length are available on request.

**Assembly Parts**

- Connector MQ4 plug & 4.3-10 jack connector plated with white bronze
- Cable S-Link 1/4"S, FRNC jacket
- Main Label (Marking 1) Direct print onto the cable or one wrapping label  
Marking includes manufacturer, part nr. & batch no.
- Marking 2 – 5 Direct print onto the cable or on wrapping label  
Marking according AISG

Marking diagram		
	Pin	Label content
Marking 2	MQ4-1	R -
Marking 3	MQ4-2	CR -
Marking 4	MQ4-3	CL -
Marking 5	MQ4-4	L -

Bend Protection Molding material TPE compound or anti- kink sleeve

Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

RF\_35/05.10/6.0

**Electrical Data**

Impedance	50 Ω	
Frequency	DC to 6 GHz	
Return loss	typ.	min.
0.38 – 0.47 GHz	≥ 28 dB	≥ 26 dB
0.60 – 0.96 GHz	≥ 28 dB	≥ 26 dB
1.40 – 2.70 GHz	≥ 25 dB	≥ 23 dB
3.40 – 4.20 GHz	≥ 23 dB	≥ 21 dB
5.10 – 6.00 GHz	≥ 19 dB	≥ 17 dB
Insertion loss typ.		
0.38 – 0.47 GHz	≤ 0.135 dB/m (cable) + 0.01 dB * √f (GHz)	
0.60 – 0.96 GHz	≤ 0.190 dB/m (cable) + 0.01 dB * √f (GHz)	
1.40 – 2.20 GHz	≤ 0.302 dB/m (cable) + 0.01 dB * √f (GHz)	
2.20 – 2.70 GHz	≤ 0.337 dB/m (cable) + 0.01 dB * √f (GHz)	
3.40 – 4.20 GHz	≤ 0.430 dB/m (cable) + 0.01 dB * √f (GHz)	
5.10 – 6.00 GHz	≤ 0.534 dB/m (cable) + 0.01 dB * √f (GHz)	
Intermodulation (3rd order @ 2 x 20 W)	≤ -117 dBm	
Relative Velocity of Propagation	83 %	
DC breakdown voltage	2000 V	

**Mechanical Data**

Coupling torque MQ4 plug (recommended)	25 Nm
Coupling torque 4.3-10 (recommended)	5 to 8 Nm
Spanner flat on MQ4 coupling nut	32 mm
Spanner flat on 4.3-10 body	20 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	-45 °C to +85 °C
Installation temperature range	-25 °C to +60 °C
Degree of protection	IEC 60529, IP67
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
Rong Fang	03.12.2021	Rong Fang	20.05.2022	300	22-0828	Fl. Öllerer	20.05.2022
Rosenberger Hochfrequenztechnik GmbH & Co. KG P.O.Box 1260 D-84526 Tittmoning Germany <a href="http://www.rosenberger.com">www.rosenberger.com</a>					Tel. : +49 8684 18-0 Email : <a href="mailto:info@rosenberger.com">info@rosenberger.com</a>		Page 2 / 2