

Rosenberger SLink™ Jumper Cables

RosenbergerSLink™ jumpers are commonly used for the connection of the RF cable lines with the antenna or with the radios.

RosenbergerSLink™ jumpers are ideal for daily use even under difficult conditions and featured by the following characteristics:

- Long trouble-free field life as a result of tried and tested materials and production technologies
- Designed for outdoor applications under extreme climatic conditions (longitudinal waterproofing)
- High flexibility and small bending diameters
- Specially developed connectors using soldering technology, that guarantees superior electrical characteristics
- Screening attenuation > 120 dB
- Low intermodulation product IM3 > 160 dBc
- Excellent return loss due to silver-plated connectors and attenuation-optimized cable materials
- Integrated lighting protection technology saves setup time, that is site-optimized and reduces system attenuation
- Hot-polyamide moulding between connector and cable jacket
- Waterproof to safety class IP68
- Used cable jacket of flame retardant, halogen-free material (FRNC)



Technical Specification

Electrical Data	1/4"S	3/8"S	1/2"S	1/2"R
Frequency range	DC to 2200 MHz			
Peak power rating	6.4 KW	11.9 KW	16.0 KW	40.0 KW
Nominal impedance	50 Ω			
Return loss 30 – 1000 MHz	> 28 dB			
Return loss 1000 – 2200 MHz	> 26 dB			
Insertion loss 900 MHz	≤ 0.18 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.13 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.10 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.07 dBm (cable) + 0.10 dB (2 connectors)
Insertion loss 1800 MHz	≤ 0.26 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.20 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.16 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.10 dBm (cable) + 0.10 dB (2 connectors)
Insertion loss 2200 MHz	≤ 0.30 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.22 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.17 dBm (cable) + 0.10 dB (2 connectors)	≤ 0.11 dBm (cable) + 0.10 dB (2 connectors)
Intermodulation at 900 MHz, 1800 MHz, 2200 MHz	> 160 dBc (3rd order product with 2x 43 dBm)			

Mechanical Data	1/4"S	3/8"S	1/2"S	1/2"R
Bending diameter repeated bending	> 50 mm		> 60 mm	
Bending diameter single bending	> 25 mm		> 30 mm	> 140 mm
Tensile strength	max. 600 N		max. 750 N	max. 1150 N

Environmental Data	1/4"S	3/8"S	1/2"S	1/2"R
Waterproof to safety class (IEC 529)	IP 68			
Max operating temperature range	– 40 °C to + 80 °C			
Installation temperature range	– 15 °C to + 60 °C			
Mechanical oscillation	MIL STD 202 Meth. 204/B			
Shock resistance	MIL STD 202 Meth. 213/B			
Corrosion resistance	MIL STD 202 Meth. 101			

Materials	1/4"S	3/8"S	1/2"S	1/2"R
Cable inner conductor	copper clad, aluminium wire			
Cable dielectric	highly foamed polyethylene			
Cable outer conductor	spiral corrugated copper tube			annular corrugated copper tube
Cable jacket options	FRNC, black and PE black			
Connector inner conductor	brass / CuBe, silver-plated			
Connector outer conductor	brass, silver-plated			
Insulator	PTFE			
Sealing	hot- polyamide moulding			

Customized jumper cables available on request

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