

SLink
Cable

1/2" S FRNC

SL 012S FRNC



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 3.6 mm
Dielectric	Foam PE	Ø 9.0 mm
Outer conductor	Corrugated copper(Helically)	Ø 12.2 mm
Jacket	PE, Flame Retardant Non Corrosive(FRNC)	Ø 13.4 mm
	Black, UV resistant, Halogen free	
Ink marking: metric length	RosenbergerSLink™_SL 012S_FRNC_50Ω_ _ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _ XXXXm	

Documents

Fire resistance	IEC 60332-1-2:2004; IEC 60332-3-24:2000
	IEC 60754-1/-2:1994; IEC 61034-2:2005
UV resistance	GB 14049-093; EN 50289-4-17, Method A

Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	83%
Capacitance	80 pF/m
Inductance	0.195 µH/m
Maximum Operating Frequency	10.2 GHz
Cut-off Frequency	13.0 GHz
Peak Power Rating	16 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2500V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 2.73 Ω/km
Outer Conductor DC-resistance	≤ 3.68 Ω/km

Environmental Specification

Installation Temperature	-20°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65EU (RoHS)	compliant

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Mechanical Specification

Cable weight	≈ 184 kg/km
Tensile strength	750 N
Min. bending radius (single)	25 mm
Min. bending radius (repeated)	35 mm
Number of bends, minimum (typical)	20 (50)
Bending moment	3 Nm
Flat plate crush strength	15 N/mm
Recommended hanger spacing	0.8 m
Retention force radial	40 Ncm min. (between inner conductor and jacket)
Retention force axial	200 N min. (between inner conductor and dielectric) test method: refer to RN 085-01

Standard Conditions

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Return Loss

Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz
Cable assemblies with a length up to 20m should meet the following requirement:	
Return Loss	≤ -30dB @ DC-1000MHz
	≤ -28dB @ 1000 -2500MHz
	≤ -26dB @ 2500-3000MHz
Intermodulation (3rd order, 2 x 20W)	≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	3.31	3.16
200	4.84	2.17
300	6.07	1.71
400	7.11	1.47
450	7.59	1.38
800	10.4	1.01
900	11.2	0.95
1000	11.8	0.89
1800	16.0	0.63
2000	17.2	0.60
2200	18.2	0.56
2500	19.5	0.52
2700	20.5	0.50
3500	21.9	0.45

Maximum attenuation value shall be 105% of the nominal attenuation value
Other frequencies on request

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.

Draft	Date	Check	Approved	Date	Rev.	Engineering change number	Name	Date
Feifei	13/12/11	Gramsamer	Gramsamer	30.07.18	h	18-1373	Ulisses	30.07.18
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