



This product used for mobile network and telecommunication equipment

Characteristics

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 4.8 mm
Dielectric	Foam PE	Ø 12.1 mm
Outer conductor	Corrugated copper(Annularly)	Ø 13.8 mm
Jacket	PE, Flame Retardant Non Corrosive(FRNC), Black, UV resistant, halogen free	Ø 15.9 mm
Ink marking : metric length	RosenbergerSLink™_SL 012R_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	88%
Capacitance	76 pF/m
Inductance	0.190 H/m
Maximum Operating Frequency	8.8 GHz
Cut-off Frequency	10.0 GHz
Peak Power Rating	40 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	6000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.5 Ω/km
Outer Conductor DC-resistance	≤ 2.3 Ω/km

Environmental Specofication

Installation Temperature	-40°C to +60°C
Operating Temperature	-55°C to +85°C
Storage Temperature	-70°C to +85°C
2002/95/EC (RoHS)	compliant

Technical Data Sheet

SLink
Cable

1/2"R FRNC

RLCX-SL012R FRNC

Mechanical Specification

Cable weight	≈ 245 kg/km
Tensile strength	1150 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	125 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	5 Nm
Flat plate crush strength	20 N/mm
Recommended hanger spacing	0.8 m

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	2.15	3.94
200	3.08	2.75
300	3.81	1.99
400	4.46	1.80
450	4.70	1.80
800	6.35	1.33
900	6.75	1.25
1000	7.20	1.18
1800	9.90	0.86
2000	10.05	0.81
2200	11.10	0.77
2500	11.95	0.73
2700	12.47	0.69
3000	13.20	0.65

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	Approved	Date
Feifei	13/12/11	Roger	13/12/11

Rev.	Engineering change number	Name	Date
d	11-0003	Feifei	13/12/11

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