

SLink
Cable

1/4"R PE

SL 014R PE



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 2.6 mm
Dielectric	Foam PE	Ø 6.4 mm
Outer conductor	Corrugated copper(Annularly)	Ø 7.6 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 9.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 014R_PE_50Ω_ _ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _ XXXXm	

Documents

UV resistance	GB 14049-093; EN 50289-4-17, Method A
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Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	85%
Capacitance	78.5 pF/m
Inductance	0.195 µH/m
Maximum Operating Frequency	15.0 GHz
Cut-off Frequency	19.0 GHz
Peak Power Rating	7.5 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2200V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 6.05 Ω/km
Outer Conductor DC-resistance	≤ 4.45 Ω/km

Environmental Specification

Installation Temperature	-25°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	≈ 94 kg/km
Tensile strength	560 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	120 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	2 Nm
Flat plate crush strength	10 N/mm
Recommended hanger spacing	0.6 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	5.14	1.92
200	7.50	1.40
300	8.50	1.20
400	9.00	1.09
450	9.14	1.08
800	12.7	0.78
900	13.3	0.74
1000	14.1	0.70
1800	19.5	0.51
2000	20.6	0.49
2200	21.8	0.45
2500	23.4	0.42
2700	28.0	0.36
3000	28.3	0.35

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	Feifei	Luding	30/01/13	f	12-0003	Zhukun	04/12/12
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