

SLink
Cable

1-1/4"R PE

SL 114R PE



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper tube	Ø 13.1 mm
Dielectric	Foam PE	Ø 32.5 mm
Outer conductor	Corrugated copper(Annularly)	Ø 35.8 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 39.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 114R_PE_50Ω_ _ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _ XXXXm	

Documents

UV resistance	GB/T 2423.24-1995; EN 50289-4-17, Method A
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Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88%
Capacitance	76 pF/m
Inductance	0.190 µH/m
Maximum Operating Frequency	3.3 GHz
Cut-off Frequency	3.7 GHz
Peak Power Rating	200 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	10000V
Jacket Spark Test Voltage	10000 Vrms
Inner Conductor DC-resistance	≤ 0.91 Ω/km
Outer Conductor DC-resistance	≤ 0.90 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	≈ 770 kg/km
Tensile strength	2500 N
Min. bending radius (single)	200 mm
Min. bending radius (repeated)	380 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	50 Nm
Flat plate crush strength	20 N/mm
Recommended hanger spacing	1.2 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)	≤ -24dB 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)	≤ -21dB 2500 to 3000MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	0.80	12.9
200	1.15	8.81
300	1.55	6.37
400	1.72	5.69
450	1.83	5.40
800	2.47	4.03
900	2.64	3.73
1000	2.80	3.50
1800	3.96	2.50
2000	4.23	2.31
2200	4.48	2.19
2500	4.84	2.03
2700	5.36	1.86
3000	5.42	1.79

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	e	12-0003	Zhukun	04/12/12
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