

SLink
Cable

1/2"R A PE

SL 012R A PE



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 4.8 mm
Dielectric	Foam PE	Ø 12.1 mm
Outer conductor	Corrugated Aluminum (Annularly)	Ø 13.9 mm
Jacket	PE, Black, UV resistant, halogen free	Ø15.7 mm
Ink marking: metric length	RosenbergerSLink™_SL 012R A_PE_50Ω_ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _XXXXm	

Documents

UV resistance	UL 1581; IEC 60068 2-5
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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	8.8 GHz
Cut-off Frequency	10.0 GHz
Peak Power Rating	40 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	4000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.57 Ω/km
Outer Conductor DC-resistance	≤ 2.76 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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RF_35/05.10/6.0

Technical Data Sheet

Rosenberger

SLink
Cable

1/2"R A PE

SL 012R A PE

Mechanical Specification

Cable weight	≈ 175 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	14 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

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	2.35	3.53
200	3.35	2.45
300	4.11	1.99
400	4.86	1.72
450	5.14	1.59
800	6.92	1.17
900	7.40	1.10
1000	7.75	1.04
1800	10.6	0.75
2000	11.2	0.71
2200	11.8	0.67
2500	12.6	0.62
2700	13.1	0.58
3000	13.9	0.52

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	Approve	Date	Rev.	Engineering change number	Name	Date
Feifei	23/11/11	Feifei	Luding	30/01/13	c	13-c012	Zhukun	11/01/13
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