

SLink
Cable

3/8"R PE

SL 038R PE



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 3.1 mm
Dielectric	Foam PE	Ø 8.3 mm
Outer conductor	Corrugated copper(Annularly)	Ø 9.5 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 11.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 038R_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	85%
Capacitance	78 pF/m
Inductance	0.195 µH/m
Maximum Operating Frequency	12.0 GHz
Cut-off Frequency	15.1 GHz
Peak Power Rating	12.8 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	2500V
Jacket Spark Test Voltage	5000 Vrms
Inner Conductor DC-resistance	≤ 3.46 Ω/km
Outer Conductor DC-resistance	≤ 3.50 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

Tensile strength	700 N
Min. bending radius (single)	50 mm
Min. bending radius (repeated)	110 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	2.5 Nm
Flat plate crush strength	20 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

Intermodulation (3rd order, 2 x 20W) ≤ -117dBm @ 910MHz or 1800MHz (static and dynamic)

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	3.42	2.23
200	4.92	1.90
300	6.12	1.45
400	6.90	1.44
450	6.91	1.43
800	9.50	1.04
900	9.92	0.99
1000	10.5	0.94
1800	14.4	0.69
2000	15.2	0.65
2200	16.0	0.62
2500	17.1	0.58
2700	18.8	0.53
3000	18.9	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	Approved	Date	Rev.	Engineering change number	Name	Date
Feifei	13/12/11	Feifei	Luding	30/01/13	f1	16-m001	WG.Z	04/12/16
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