



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper tube	Ø 9.45 mm
Dielectric	Foam PE	Ø 24.0 mm
Outer conductor	Corrugated Aluminum (Annularly)	Ø 25.4 mm
Jacket	Flame Retardant Non Corrosive(FRNC) Black, Halogen free	Ø 27.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 078R A L_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
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Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	91%
Capacitance	73 pF/m
Inductance	0.180 µH/m
Maximum Operating Frequency	5.0 GHz
Cut-off Frequency	5.2 GHz
Peak Power Rating	91 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	10000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.41 Ω/km
Outer Conductor DC-resistance	≤ 1.29 Ω/km

Environmental Specification

Installation Temperature	-50°C to +85°C
Operating Temperature	-50°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65/EU (RoHS)	compliant

Technical Data Sheet

Rosenberger

SLink
Cable

7/8"R A L FRNC

SL 078R A L FRNC

Mechanical Specification

Cable weight	≈ 410 kg/km
Tensile strength	1450 N
Min. bending radius (single)	120 mm
Min. bending radius (repeated)	250 mm
Number of bends, minimum (typical)	15 (30)
Bending moment	18 Nm
Flat plate crush strength	10 N/mm
Recommended hanger spacing	1.0 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)	≤ -21dB 2500 to 3000MHz

Intermodulation (3rd order, 2 x 20W) ≤ -116dBm @ 910MHz or 1800MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	1.22	7.01
200	1.75	4.83
300	2.18	3.90
400	2.53	3.36
450	2.70	2.88
800	3.67	2.09
900	3.89	1.98
1000	4.12	1.92
1800	5.78	1.35
2000	6.08	1.30
2200	6.46	1.25
2500	6.85	1.20
2700	7.50	1.02
3000	7.69	0.98

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
Zhukun	21/03/13	Feifei	Luding	21/03/13	a1	-----	Zhukun	21/03/13

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