



This product used for mobile network and telecommunication equipment

**Material and dimensions**

Inner conductor	Copper tube	Ø 9.45 mm
Dielectric	Foam PE	Ø 22.6 mm
Outer conductor	Corrugated copper (Annularly)	Ø 25.4 mm
Jacket	PE, Flame Retardant Non Corroxive (FRNC)	Ø 27.6 mm
	Black, UV resistant, Halogen free	
Ink marking: metric length	RosenbergerSLink™_SL 078R_L_PE_50Ω_ _ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _ XXXXm	

**Documents**

UV resistance	IEC 60332-1-2:2004 ; IEC 60332-3-24:2000 IEC 60754-1/-2:1994 ; IEC 61034-2:2005 GB/T2423.24-1995; 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	0.195 µH/m
Maximum Operating Frequency	5.0 GHz
Cut-off Frequency	5.2 GHz
Peak Power Rating	95 kW
Insulation Resistance	10 GΩ x km
DC Breakdown Voltage	10000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤1.39Ω /km
Outer Conductor DC-resistance	≤1.43Ω /km

**Environmental Specification**

Installation Temperature	25°C to +60°C
Operating Temperature	40°C to +85°C
Storage Temperature	70°C to +85°C
RoHS	compliant
CPR	B2ca - s1a,d0,a1

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RF\_35/05.10/6.0

SLink  
Cable

7/8"R FRNC

**SL 078R FRNC**

**Mechanical Specification**

Cable weight	445 kg/km
Tensile strength	1450 N
Min. bending radius (single)	120 mm
Min. bending radius (repeated)	250 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	18 Nm
Flat plate crush strength	14 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)	≤ -20dB 2500 to 3800MHz

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)
200	1.69	6.40
300	2.11	4.82
400	2.48	4.16
450	2.64	3.81
800	3.63	2.75
900	3.86	2.62
1000	4.12	2.56
1800	5.75	1.79
2000	6.11	1.70
2200	6.46	1.60
2500	6.95	1.48
2700	7.28	1.23
3000	7.75	1.15
3500	8.29	1.03
3800	8.45	0.95

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	Approved	Date	Rev.	Engineering change number	Name	Date
Feifei	23.11.11	J. Gramsamer	25.03.24	j00	24-RL018	H. Schnitzer	25.03.24

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