



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Smooth Copper Tube	Ø 9.45 mm
Dielectric	Foam PE	Ø 22.8 mm
Outer conductor	Overlapping Copper Foil	Ø 23.5 mm
Jacket	Flame Retardant Non Corrosive	Ø 27.2 mm
	Black, UV resistant, Halogen free	
Ink marking: metric length	RosenbergerSLink™_SL 078B_RK_FRNC_50Ω_---_ (DD+MM+SS+YY+NNNNN)_---_XXXXm	

Documents

Fire resistance	IEC 60332-1
Smoke index	IEC 61034
Toxicity index	IEC 60754-1 / IEC 60754-2

Electrical Specification

Impedance	50 ± 2 Ω	
Relative Velocity of Propagation	89%	
Capacitance	75 pF/m	
Operating Frequency Range	5-3700 MHz	
Optimum Operating Frequency Range	700-3700 MHz	
Stop Band	1030-1050 & 2060-2100 MHz	
Insulation Resistance	≥ 10 GΩ x km	
DC Breakdown Voltage	10000V	
Jacket Spark Test Voltage	8000 Vrms	
Inner Conductor DC-resistance	≤ 2.3 Ω/km	
Outer Conductor DC-resistance	≤ 3.6 Ω/km	
Return Loss	≤ 17.7 dB	698-960 MHz
	≤ 17.7 dB	1710-2025 MHz
	≤ 17.7 dB	2110-2170 MHz
	≤ 15.5 dB	2300-2700 MHz
	≤ 15.5 dB	3300-3700 MHz

Polarization mode

Polarization	Radial	5-470 MHz
	Vertical	570-2700 MHz

Environmental Specification

Installation Temperature	-40°C to +80°C
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
Relative humidity	95%
RoHS	compliant
CPR rating	B2ca-s1a,d2,a1

Mechanical Specification

Cable weight	450 kg/km
Tensile strength	1350 N
Min. bending radius (single)	150 mm
Min. bending radius (repeated)	250 mm
Bending moment	14.9 Nm
Recommended hanger spacing	0.8 m

Standard Conditions

Attenuation test method	IEC 61196-4
Attenuation tolerance	±5%
Attenuation ambient temperature	20 °C
Coupling test method	IEC 61196-4
Coupling loss tolerance	±5%

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Coupling Loss (2m)	
		50% (dB)	95% (dB)
800	4.00	72	78
900	4.30	71	76
960	4.50	70	76
1800	6.70	68	73
1900	6.90	68	72
2000	7.30	68	73
2100	7.60	68	72
2200	8.00	68	72
2300	8.30	68	72
2400	8.80	68	72
2600	9.40	65	70
2700	10.00	65	70
3400	13.20	62	68
3500	14.00	60	66
3600	15.00	60	66
3700	16.50	61	66

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
Sebastian Lang	16.01.24	J. Gramsamer	05.06.24	200	24-RL028	U. Ferraz	05.06.24

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