



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Helical Copper Tube	Ø 18 mm
Dielectric	Foam PE	Ø 42.8 mm
Outer conductor	Overlapping Copper Foil	Ø 43.5 mm
Jacket	Flame Retardant Non Corrosive Black, UV resistant, Halogen free	Ø 47.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 158B_RK_FRNC_50Ω_ _ _ _ _(DD+MM+SS+YY+NNNNN)_ _ _ _ _XXXm	

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	5-2700 MHz	
Optimum Operating Frequency Range	700-2700 MHz	
Stop Band	1110-1140 & 2220-2280 MHz	
Insulation Resistance	≥ 10 GΩ x km	
DC Breakdown Voltage	10000 V	
Jacket Spark Test Voltage	10000 Vrms	
Inner Conductor DC-resistance	≤ 1.50 Ω/km	
Outer Conductor DC-resistance	≤ 2.00 Ω/km	
Return Loss	≤ 17.7 dB	75-150 MHz
	≤ 17.7 dB	698-960 MHz
	≤ 17.7 dB	1432-1517 MHz
	≤ 17.7 dB	1710-2025 MHz
	≤ 17.7 dB	2300-2700 MHz

Polarization mode

Polarization	Radial	5-150 MHz
	Vertical	570-2700 MHz

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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 classification	B2ca-s1a,d2,a1

Mechanical Specification

Cable weight	930 kg/km
Tensile strength	3000 N
Min. bending radius (single)	500 mm
Min. bending radius (repeated)	700 mm
Bending moment	16 Nm
Recommended hanger spacing	0.8-1.2 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)
75	0.6	70	79
100	0.7	70	81
150	0.9	78	90
700	1.9	74	77
800	2.1	70	73
900	2.3	69	72
1800	3.6	64	67
1900	3.9	63	66
2000	4.1	63	66
2100	4.3	62	65
2400	5.0	61	65
2600	5.6	62	64
2700	6.3	63	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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