



This product used for mobile network and telecommunication equipment

Materials and Nom. dimension

Inner Conductor Material	Helical Copper Tube	Ø13.8 mm
Dielectric	Formed PE	Ø 33.6 mm
Outer Conductor	Copper Foil	Ø 34.4 mm
Jacket	Flame Retardant Non-Corrosive (FRNC), Black, Halogen free	Ø 38.0 mm
Ink marking: metric length	Rosenberger SLink™_SL 114U_RK_FRNC A_50 Ω _ _ _ _ (DD+ MM+SS+YY+NNNNN)_ _ _ _ _ XXXXm	

Documents

Flame resistance	IEC 60332-1-2
Low Smoke & Halogen Free	IEC 61034-2; IEC 60754-1 & -2

Electrical Specifications

Impedance	50±2 Ω
Velocity	88 %
Capacitance	75 pF/m
Insulation Resistance	>10000 MΩ .km
DC Breakdown Voltage	10000V
Jacket Spark Test	10000V
Inner conductor DC-resistance	1.90 Ω /km
Outer conductor DC-resistance	2.40 Ω /km
Stop band	1085MHz to 1150MHz & 2170MHz to 2300MHz
Operating Frequency Band	75~2700 MHz
Optimum Operating Frequency Band	700~2700 MHz
VSWR	≤1.3 75MHz to 150MHz
	≤1.3 800MHz to 960MHz
	≤1.3 1700MHz to 2025MHz
	≤1.3 2100MHz to 2170MHz
	≤1.3 2300MHz to 2700MHz

Environment Specifications

Installation Temperature	-40°C to +80°C
Operating Temperature	-55°C to +85°C
Storage Temperature	-55°C to +85°C
RoHS	Compliant

General Specifications

Cable Type	Radiating mode
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Data Sheet



SL 1 1/4" RK FRNC

SL 114U RK FRNC A

Mechanical Specifications

Minimum Bend Radius		
Single Bend		200mm
Multiple Bend		400mm
Bending Moment		15.5 Nm
Minimum Distance to wall		50 mm
Recommended Hanger Spacing		1 m
Tensile Strength		2500 N

Standard Conditions

Attenuation Test Method	IEC 61196-4
Attenuation Tolerance	±5%
Attenuation Ambient Temperature	20°C
Average power, ambient temperature	40°C
Average power, inner conductor temperature	100°C
Coupling Loss Test Method	IEC 61196-4
Coupling Loss Tolerance	±5dB

Performance

Frequency (MHz)	75	100	150	700	800	900	960	1800
Attenuation, dB/100 m	0.72	0.82	1.02	2.35	2.55	2.75	2.85	4.50
Coupling Loss (2m), 50%(dB)	70	66	71	78	70	68	68	66
Coupling Loss (2m), 95%(dB)	78	76	81	85	72	72	72	70

Frequency (MHz)	2000	2100	2400	2600	2620	2700
Attenuation, dB/100 m	4.95	5.20	6.22	7.02	7.24	7.62
Coupling Loss (2m), 50%(dB)	64	64	61	58	58	57
Coupling Loss (2m), 95%(dB)	68	68	65	61	60	59

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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
W W	23/4/19	WG	Lucy	23/4/19	1.0	---	W W	23/4/19

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