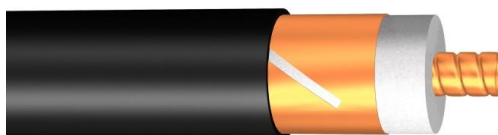


Data Sheet

RosenbergerSLink
Cable

LEAKY COAXIAL

SL 158U RK FRNC

This product used for mobile network and telecommunication equipment

Material and dimension

Inner Conductor Material	Helical Copper Tube	Ø 18.0 mm
Dielectric	Foamed PE	Ø 43.0 mm
Outer Conductor	Copper foil	Ø 44.0 mm
Jacket	Flame Retardant Non Corrosive(FRNC) Black, Halogen free	Ø 49.0 mm

Ink marking: metric length

RosenbergerSLink™_SL 158U_RK_FRNC_50Ω______(DD+
MM+SS+YY+NNNNN)_____XXXm

Documents

Fire Resistance	IEC 60332-1-2: 2004 IEC 61034-2; IEC 60754-1 & -2
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Electrical Specifications

Impedance	50 ± 2 Ω
Capacitance	75 pF/m
Insulation Resistance	≥ 5000 MΩ x km
Insulation Voltage	15000V
Jacket Spark Test Voltage	10000 Vrms
Inner conductor DC-resistance	≤ 1.50 Ω/km
Outer conductor DC-resistance	≤ 1.60 Ω/km
Relative velocity of propagation	89%
Operating Frequency Band	75MHz to 2700 MHz
Optimum Operating Frequency Band	700MHz to 2700MHz
Stop Band	1012 to 1052MHz & 2025 to 2110MHz
VSWR	≤1.3 75 MHz to 150MHz ≤1.3 450MHz to 500MHz ≤1.3 800MHz to 960MHz ≤1.3 1700MHz to 2025MHz ≤1.3 2110MHz to 2170MHz ≤1.3 2300MHz to 2700MHz

Environmental Specification

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

Data Sheet

RosenbergerSLink
Cable

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SL 158U RK FRNC

General Specifications

Cable Type Radiation Mode

Mechanical Specification

Minimum Bend Radius,
 Single Bend 510 mm
 Multiple Bend 900 mm
 Bending Moment 16N.m
 Minimum Distance to Wall 50 mm
 Recommended Hanger Spacing 0.8 m to 1.2m
 Tensile Strength 3000 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 +5 dB

Performance

Frequency [MHz]	75	100	150	450	500	700	800
Attenuation(dB/100m)	0.63	0.84	0.94	1.5	1.6	1.95	2.16
Coupling loss2m dB(50%)	70	70	78	81	82	74	70
Coupling loss2m dB(95%)	79	81	90	90	90	77	73

Frequency [MHz]	900	1800	2000	2100	2400	2600	2700
Attenuation(dB/100m)	2.37	3.70	4.22	4.50	5.15	5.8	6.20
Coupling loss2m dB(50%)	69	64	63	62	61	63	63
Coupling loss2m dB(95%)	72	67	66	65	65	66	66

Draft	Date	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
W W	22/7/19	WG.Z	Sky	22/7/19	1.0	19-m003	W.W	22/7/19

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