Data Sheet	Rosenberger
SL 1/2”RK FRNC	SL 012U RK FRNC

This product used for mobile network and telecommunication equipment

Materials and dimension

Inner Conductor Material	Copper-Clad Aluminium Wire	Ø4.8mm
Dielectric	Formed PE	Ø12.3mm
Outer Conductor	Copper Foil	Ø12.6mm
Jacket	Flame Retardant Non-Corrosive (FRNC),Black, Halogen free	Ø15.5mm
Ink marking: metric length	RosenbergerSLink™_SL 012U_RK_FRNC_50Ω_ _ _ _(DD+MM +SS+YY+NNNNN)_ _ _ _ _XXXXm	

Documents

Fire resistance	IEC 60332-1-2 IEC 61034-2; IEC 60754-1/2

Electrical Specifications

Impedance	50±2Ω
Velocity	86%
Capacitance	75pF/m
Insulation Resistance	>5000 MΩ.km
DC Breakdown Voltage	8000V
Jacket Spark Test Voltage	6000V
Inner conductor DC-resistance	1.65 Ω/km
Outer conductor DC-resistance	6.50 Ω/km
Stop Band	1012~1052 MHz & 2025~2110 MHz & 2170~2300 MHz
Operating Frequency Band	5~2700 MHz
Optimum Operating Frequency Band	700~2700 MHz
VSWR	≤1.4 75MHz to 150MHz ≤1.4 800MHz to 960MHz ≤1.4 1700MHz to 2025MHz ≤1.4 2110MHz to 2170MHz ≤1.4 2300MHz to 2700MHz

Environment Specifications

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

Rosenberger Hochfrequenztechnik GmbH & Co. KG
Tel.: +49 8684 18-0 Fax: +49 8684 18-499
www.rosenberger.de email : info@rosenberger.de

Rosenberger Technology (Kunshan) Co., Ltd.
Tel.: +86 512 86896789 Fax: +86 512 8689 0666
www.rosenbergerap.com email: info@rosenbergerap.com

Data Sheet	Rosenberger
SL 1/2”RK FRNC	SL 012U RK FRNC

General Specifications

Cable Type	Radiating Mode

Mechanical Specifications

Minimum Bend Radius	
Single Bend	75mm
Multiple Bend	150mm
Bending Moment	13.5 Nm
Minimum Distance to wall	50 mm
Recommended Hanger Spacing	0.8~1.2 m
Tensile Strength	1000 N

Standard Conditions

Attenuation Test Method	IEC 61196-4
Attenuation Tolerance	±10%
Attenuation Ambient Temperature	20℃
Average power, ambient temperature	40℃
Average power, inner cond. temperature	100℃
Coupling Loss Test Method	IEC 61196-4
Coupling Loss Tolerance	±5dB

Performance

Frequency (MHz)	**75**	**100**	**150**	**700**	**800**	**900**	**960**	**1800**	**1900**	**2000**	**2100**	**2400**	**2600**	**2620**	**2700**
Attenuation, dB/100 m	2.0	2.1	2.4	3.1	7.2	7.7	8.3	11.5	12.3	12.8	13.5	14.8	16.5	17.8	18.1
Coupling Loss (2m), 50%(dB)	75	71	79	73	69	68	68	65	66	67	66	63	64	64	65
Coupling Loss (2m), 95%(dB	80	83	90	78	73	72	71	68	68	70	69	66	68	68	69

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