Technical Data Sheet		Rosenberger
SLink Cable	1/2”R PE	**SL 012R PE**

This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper Clad Aluminum wire	Ø 4.8 mm
Dielectric	Foam PE	Ø 12.2 mm
Outer conductor	Corrugated copper(Annularly)	Ø 13.8 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 15.9 mm
Ink marking：metric length	RosenbergerSLink™_SL 012R_PE_50Ω_ _ _ _ _(DD+MM +SS+YY+NNNNN)_ _ _ _ _XXXXm	

Documents

UV resistance	GB/T 2423.24-1995 ; EN 50289-4-17, Method A

Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	88%
Capacitance	76 pF/m
Inductance	0.190 µH/m
Maximum Operating Frequency	8.8 GHz
Cut-off Frequency	10.0 GHz
Peak Power Rating	40 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	6000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.55 Ω/km
Outer Conductor DC-resistance	≤ 2.7 Ω/km

Environmental Specification

Installation Temperature	-25°C to +60°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-70°C to +85°C
RoHS	compliant

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Mechanical Specification

Cable weight	200 kg/km
Tensile strength	1150 N
Min. bending radius (single)	70 mm
Min. bending radius (repeated)	125 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	5 Nm
Flat plate crush strength	20 N/mm
Recommended hanger spacing	0.8 m

Standard Conditions

Attenuation, Ambient Temperature	20°C
Average Power, Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

Return Loss

Return loss(Band A)	≤ -26dB 800 to 1000MHz
Return loss(Band B)	≤ -24dB 1700 to 1900MHz
Return loss(Band C)	≤ -24dB 1900 to 2200MHz
Return loss(Band D)	≤ -24dB 2200 to 2500MHz
Return loss(Band E)	≤ -24dB 2500 to 3000MHz

Attenuation

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	2.15	3.94
200	3.08	2.75
300	3.81	1.99
400	4.46	1.80
450	4.70	1.80
800	6.35	1.33
900	6.75	1.25
1000	7.20	1.18
1800	9.90	0.86
2000	10.50	0.81
2200	11.10	0.77
2500	11.95	0.73
2700	12.47	0.69
3000	13.20	0.65

Maximum attenuation value shall be 105% of the nominal attenuation value
Other frequencies on request

Draft	Date	Check	Approved	Date
Feifei	13/12/11	James	heanyang	28/08/15

Rev.	Engineering change number	Name	Date
g	15-1121	huanghuan	20/08/15

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