

SLink  
Cable

1-5/8"R A PE

**SL 158R A PE**



This product used for mobile network and telecommunication equipment

**Material and dimensions**

Inner conductor	Corrugated copper tube	Ø 17.3 mm
Dielectric	Foam PE	Ø 44.5 mm
Outer conductor	Corrugated Aluminum (Annularly)	Ø 46.5 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 49.8 mm
Ink marking: metric length	RosenbergerSLink™_SL 158R A_PE_50Ω_ _ _ _ (DD+MM +SS+YY+NNNNN)_ _ _ _ _XXXXm	

**Documents**

UV resistance	UL 1581; IEC 60068 2-5
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**Electrical Specification**

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	89%
Capacitance	76 pF/m
Inductance	0.190 µH/m
Maximum Operating Frequency	2.7 GHz
Cut-off Frequency	3.0 GHz
Peak Power Rating	302 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	15000V
Jacket Spark Test Voltage	10000 Vrms
Inner Conductor DC-resistance	≤ 1.435 Ω/km
Outer Conductor DC-resistance	≤ 0.64 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
2011/65EU (RoHS)	compliant

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**Mechanical Specification**

Cable weight	≈ 835 kg/km
Tensile strength	1600 N
Min. bending radius (single)	300 mm
Min. bending radius (repeated)	510 mm
Number of bends, minimum (typical)	15 (50)
Bending moment	40 Nm
Flat plate crush strength	13 N/mm
Recommended hanger spacing	1.2 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)	≤ -24dB 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)	≤ -21dB 2500 to 2700MHz

**Attenuation**

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
100	0.72	18.0
200	1.05	11.8
300	1.30	9.46
400	1.51	8.02
450	1.59	7.45
800	2.28	5.33
900	2.39	4.97
1000	2.56	4.67
1800	3.70	3.26
2000	3.96	3.05
2200	4.25	2.87
2500	4.61	2.64
2700	5.15	2.36

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

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Draft	Date	Check	Approved	Date	Rev.	Engineering change number	Name	Date
Feifei	23/11/11	Feifei	Luding	30/01/13	e	12-0003	Zhukun	04/12/12
Rosenberger Hochfrequenztechnik GmbH & Co. KG, Germany Tel.: +49 8684 18-0 Fax: +49 8684 18-499 www.rosenberger.de email: info@rosenberger.de						Rosenberger Asia Pacific Electronic Co., Ltd., China Tel.: +86 10 80481995 Fax: +86 10 80497052 www.rosenbergerap.com email:info@rosenbergerap.com		Page 2 / 2