



This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper tube	Ø 9.45 mm
Dielectric	Foam PE	Ø 24.0 mm
Outer conductor	Corrugated Aluminum (Annularly)	Ø 25.4 mm
Jacket	PE, Black, UV resistant, Halogen free	Ø 27.5 mm
Ink marking: metric length	RosenbergerSLink™_SL 078R A L_PE_50Ω_____(DD+MM+SS+YY+NNNNN)____Xm	

Documents

UV resistance	UL 1581; IEC 60068 2-5
---------------	------------------------

Electrical Specification

Impedance	50 ± 1 Ω
Relative Velocity of Propagation	91%
Capacitance	73 pF/m
Inductance	0.180 µH/m
Maximum Operating Frequency	5.0 GHz
Cut-off Frequency	5.2 GHz
Peak Power Rating	91 kW
Insulation Resistance	≥ 10 GΩ x km
DC Breakdown Voltage	10000V
Jacket Spark Test Voltage	8000 Vrms
Inner Conductor DC-resistance	≤ 1.41 Ω/km
Outer Conductor DC-resistance	≤ 1.29 Ω/km

Environmental Specification

Installation Temperature	-50°C to +85°C
Operating Temperature	-50°C to +85°C
Storage Temperature	-70°C to +85°C
2011/65/EU (RoHS)	compliant

RF_35/05.10/6.0 Dieses Dokument ist urheberrechtlich geschützt • This document is protected by copyright • Rosenberger Hochfrequenztechnik GmbH & Co. KG

Technical Data Sheet					Rosenberger				
SLink Cable		7/8”R A L PE			SL 078R A L PE				
Mechanical Specification									
Cable weight		≈ 370 kg/km							
Tensile strength		1450 N							
Min. bending radius (single)		120 mm							
Min. bending radius (repeated)		250 mm							
Number of bends, minimum (typical)		15 (30)							
Bending moment		18 Nm							
Flat plate crush strength		10 N/mm							
Recommended hanger spacing		1.0 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)		≤ -21dB 2500 to 3000MHz							
Attenuation									
Frequency (MHz)		Attenuation (dB/100m)				Average Power (KW)			
100		1.22				7.01			
200		1.75				4.83			
300		2.18				3.90			
400		2.53				3.36			
450		2.70				2.88			
800		3.67				2.09			
900		3.89				1.98			
1000		4.12				1.92			
1800		5.78				1.35			
2000		6.08				1.30			
2200		6.46				1.25			
2500		6.85				1.20			
2700		7.50				1.02			
3000		7.69				0.98			
Maximum attenuation value shall be 105% of the nominal attenuation value Other frequencies on request									
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	Check	Approved	Date	Rev.	Engineering change number	Name	Date	
Feifei	23/11/11	Feifei	Luding	18/01/13	d	15-m001	WG.Z	04/12/15	
					Page				
					2 / 2				