TECHNICAL DATA SHEET

Rosenberger®

SLink Cable	SL 1/2”S	SL 012S PE

This product used for mobile network and telecommunication equipment

Material and dimensions

Inner conductor	Copper clad aluminium wire	Ø 3.6mm
Dielectric	Foamed polyethylene (PE)	Ø 9.0 mm
Outer conductor	Helically corrugated copper tube	Ø 12.2mm
Jacket	Polyethylene (PE), black UV resistant, halogen free	Ø 13.6mm

Electrical data

Impedance	50 ± 1 Ω
Relative velocity of propagation	83%
Capacitance	80 pF/m
Inductance	0.195 μH/m
Maximum operating frequency	10.2 GHz
Cut-off frequency	13.0 GHz
Peak power rating	16 kW
Insulation resistance	≥ 10 GΩ x km
DC breakdown voltage	2500V
Jacket spark test voltage	5000 Vrms
Inner conductor DC-resistance	≤ 2.69 Ω/km
Outer conductor DC-resistance	≤ 3.54 Ω/km

*Can provide special cable according to customer’s requirement

RF_35/06.07/5.0

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Attenuation values and power ratings

Attenuation, ambient temperature	20°C
Average power, ambient temperature	40°C
Average power, inner conductor temperature	100°C

Frequency [MHz]	100	200	300	400	450	800	900	1000	1800	2000	2200	2500
Attenuation, typical [dB/100m]	3.31	4.84	6.07	7.11	7.59	10.4	11.2	11.8	16.0	17.2	18.2	19.6
Mean power [kW]	3.16	2.17	1.71	1.47	1.38	1.01	0.95	0.89	0.63	0.60	0.56	0.52

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

Mechanical data

Cable weight	≈ 171 kg/km
Tensile strength	750 N
Min. bending radius (single)	25 mm
Min. bending radius (repeated)	35 mm
Number of bends, minimum (typical)	20 (50)
Bending moment	3 Nm
Flat plate crush strength	15 N/mm
Recommended hanger spacing	0.8 m

Additional characteristics

Installation temperature	-40°C to +60°C
Storage temperature	-70°C to +85°C
Operation temperature	-55°C to +85°C
2002/95/EC (RoHS)	compliant

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