

**SLink Cable**

**SL 1/2" R PE**

**RLCX-SL012R PE**



This product used for mobile network and telecommunication equipment

**Material and dimensions**

Inner conductor	Copper clad aluminium wire	Ø 4.8mm
Dielectric	Foamed polyethylene (PE)	Ø 12.1mm
Outer conductor	Annularly corrugated copper tube	Ø 13.8mm
Jacket	Polyethylene (PE), black UV resistant, halogen free	Ø 16.0 mm

**Electrical data**

Impedance	$50 \pm 1 \Omega$
Relative velocity of propagation	88%
Capacitance	76 pF/m
Inductance	$0.190 \mu\text{H/m}$
Maximum operating frequency	8.8 GHz
Cut-off frequency	10.0 GHz
Peak power rating	40 kW
Insulation resistance	$\geq 10 \text{ G}\Omega \times \text{km}$
DC breakdown voltage	6000V
Jacket spark test voltage	8000 Vrms
Inner conductor DC-resistance	$\leq 1.5 \Omega/\text{km}$
Outer conductor DC-resistance	$\leq 1.9 \Omega/\text{km}$

\*Can provide special cable according to customer's requirement

# TECHNICAL DATA SHEET

## SLink Cable

## SL 1/2" R PE

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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]	2.17	3.11	3.81	4.46	4.75	6.46	6.85	7.28	10.1	10.7	11.2	12.1
Mean power [kW]	3.53	2.45	1.99	1.72	1.59	1.17	1.10	1.04	0.75	0.71	0.67	0.62

\* Maximum attenuation value shall be 105% of the nominal attenuation value

\* Other frequencies on request.

### Mechanical data

Cable weight ≈ 237 kg/km  
Tensile strength 1150 N  
Min. bending radius (single) 50 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

### 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

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	Checker	Approved	Date	Rev.	Engineering change number	Name	Date
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