

SLink Cable

SL 7/8" R PE Low Loss

RLCX-SL078R U PE



Description

This is a 7/8" cable with an annularly corrugated outer conductor. It is optimised for lower insertion loss.

Material and dimensions

Inner conductor	Copper tube	Ø 9.25 mm
Dielectric	Foamed polyethylene (PE)	Ø 22.8 mm
Outer conductor	Annularly corrugated copper tube	Ø 24.7 mm
Jacket	Polyethylene (PE), black	Ø 27.4 mm
	UV resistant, halogen free	

Electrical data

Impedance	50 ± 1 Ω
Relative velocity of propagation	90%
Capacitance (1 kHz)	73.5 ± 1.5 pF/m
Maximum operating frequency	5 GHz
Cut-off frequency	5.3 GHz
Peak power rating	95 kW
Insulation resistance	≥ 10 GΩ x km
Operating voltage	3000 Vrms
DC breakdown voltage	10000 V
Jacket spark test voltage	6300 Vrms
Inner conductor DC-resistance	≤ 1.55 Ω/km
Outer conductor DC-resistance	≤ 1.40 Ω/km

Technical Data Sheet

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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]	150	450	824	900	1000	1700	1800	1900	2000	2200	2500	3000	3500	3800
Attenuation, typical [dB/100m]	1.37	2.45	3.42	3.56	3.78	5.17	5.25	5.41	5.58	5.89	6.34	7.06	7.73	8.12
Mean power [kW]	7.10	3.97	2.86	2.72	2.57	1.91	1.84	1.79	1.70	1.65	1.53	1.37	1.25	1.18

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

Mechanical data

Cable weight ≈ 425 kg/km
Tensile strength 1450 N
Min. bending radius (single) 120 mm
Min. bending radius (repeated) 250 mm
Number of bends, minimum (typical) 15 (50)
Recommended hanger spacing 1.0 m

Additional characteristics

Installation temperature -25°C to +60°C
Storage temperature -70°C to +85°C
Operation temperature -40°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	Date	Approved	Date	Rev.	Engineering change number	Name	Date
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