Technical Data Sheet	Rosenberger
COAX CABLE	**RTK 400**



Jacket | Braid 2 | Braid 1 | Dielectric | Center Conductor

Material and Dimensions

Center conductor	copper- clad aluminium wire	Ø 2.75 mm
Dielectric	foamed PE	Ø 7.2 mm
Braid 1	alulaminate foil overlapped	
Braid 2	tin plated copper wire	Ø 7.9 mm
Jacket	PE, black	Ø 10.2 ±0.20 mm

Printing: Rosenberger RTK 400 “internal lot number”

Electrical data

Impedance	50 Ω
Recommended frequency range	DC to 6 GHz
Return Loss (30-1500 MHz)	≥ 23dB
(1500-2700 MHz)	≥ 16dB
Insertion loss	see table
Velocity of propagation	85 %
Capacitance 800Hz	≈ 77 nF/km
Test voltage	≥ 2500 V rms
Screening effectiveness	≥ 90 dB up to 2.2 GHz
Conductor resistance	≤ 4.6 Ohm/km
Screen resistance	≤ 5.6 Ohm/km
Insulation resistance	≥ 10 GOhm*km

Mechanical data

Minimum bend radius:	
Single	25.4 mm
Multible	50 mm
Bending Moment	0.7Nm
Flat Plate Crush resistance	690N/mm
Weight	100 kg/km

Attenuation

Attenuation and Power are typical values at 40°C ambient temperature and sea level.

Frequency (MHz)	100	200	500	1000	1500	2000	3000	5000
Attenuation (dB/100m)	4.1	5.8	9.4	13.5	16.8	19.6	24.5	32.8
Mean. Power (kW) 40°C)	1.9	1.3	0.8	0.6	0.45	0.4	0.3	0.2

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Environmental data

Operation Temperature	- 40 °C to + 80 °C
Installation Temperature	- 40 °C to + 80 °C
Storage Temperature	- 70 °C to + 80 °C
UV resistance	
2002/95/EC (RoHS)	compliant
Halogen free	

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