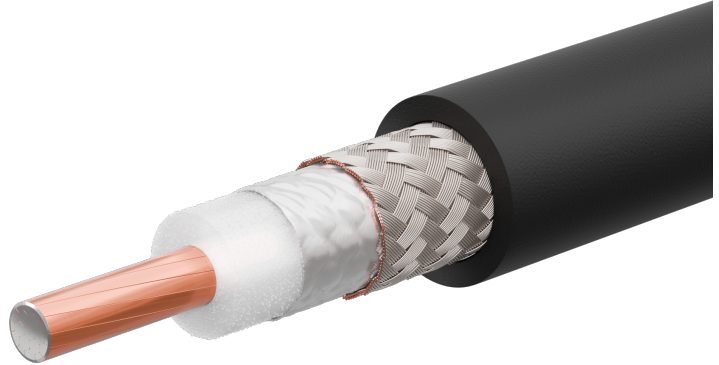


High-flexible, Low-loss, 50 Ohm, 6 GHz, 85°C, ø15.00 mm, TPU jacket

SPUMA_600-RS-FR

Properties

- Halogen free cable with standard dimensions
- Low smoke
- Ozone, UV and weathering resistance
- RS - Rotary Swaged centre conductor



Construction			
Component	Material	Detail	Diameter
Centre conductor	Aluminium, Copper clad	Strand, Rotary swaged	4.44 mm +/- 0.03 mm
Dielectric	SPE (Foamed Polyethylene)		11.54 mm +/- 0.16 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	11.72 mm +/- 0.17 mm
Outer conductor	Copper, Tin plated	Braid, 90.3%	12.53 mm +/- 0.18 mm
	TPU (Urethane TPE)	RAL 9005 - bk	15 mm +/- 0.24 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	76.5 pF/m
Velocity of signal propagation	86.8 %
Signal delay	3.84 ns/m
Insulation resistance	1000000 MΩ*m
Operating Voltage (at sea level)	≤ 2.8 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 216.5 g/m
Static bending radius	≥ 40 mm
Repeated bending radius	120 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	free of halogenes, acc. standard IEC 60754
UV resistance	ISO 4892-2A

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Additional Information

EN 45545 compliant Hazard level for indoor cables: HL2.

Suitable connectors

Cable group X29

Power Matrix

Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

a coefficient typical =	0.09	b coefficient typical =	0.0054
fmax =	6	P at 1 GHz =	870
Frequency	Nom. attenuation	Nom. attenuation	CW power
GHz	(dB/m)	(dB/ft)	(W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.029	0.009	2751
0.20	0.041	0.013	1945
0.40	0.059	0.018	1376
0.60	0.073	0.022	1123
1.00	0.095	0.029	870
1.50	0.118	0.036	710
2.00	0.138	0.042	615
6.00	0.253	0.077	355

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