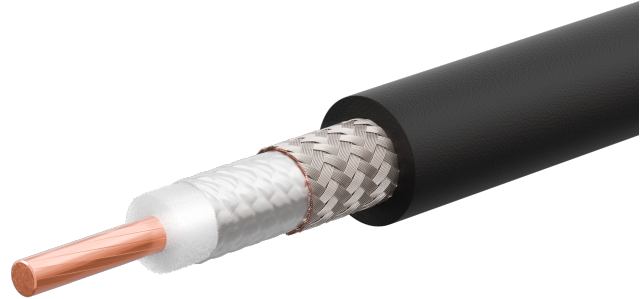


High-flexible, Low-loss, 50 Ohm, 6 GHz, 85°C, ø10.25 mm, TPU jacket

SPUMA_400-RS-FR

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper	Strand, Rotary swaged	2.74 mm
Dielectric	SPE (Foamed Polyethylene)		7.24 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	7.4 mm
Outer conductor	Copper, Tin plated	Braid, 91%	8.15 mm
Jacket	TPU (Urethane TPE)	RAL 9005 - bk	10.25 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 6 GHz
Capacitance	78 pF/m
Inductance	0.2 μH/m
Velocity of signal propagation	85 %
Signal delay	3.9 ns/m
Screening effectiveness	90dB
Insulation resistance	1000000 MΩ*m
Inner conductor resistance	4.75 Ω/km
Outer conductor resistance	6.06 Ω/km
Operating Voltage (at sea level)	≤ 1 kVrms
Test voltage (50 Hz/1 min)	≤ 2 kVrms

Mechanical data	
Weight	approx. 142 g/m
Static bending radius	≥ 25 mm
Repeated bending radius	100 mm
Bending momentum	0.9 Nm at curvature 10 1/m

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	EN 60332-1-2 IEC 60332-3-25
Fire characteristics	free of halogenes, acc. standard IEC 60754
Smoke test	EN 61034-2
UV resistance	ISO 4892-2A

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85089191	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

Additional Information
EN 45545 compliant Hazard level for indoor cables: HL3 NFPA-130 compliant.

Suitable connectors
Cable group X32

Ordering information		
Item number	Item description	Available as assembly only
85089191	SPUMA_400-RS-FR	No

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.1349	b coefficient typical =	0.0061
fmax =	6	P at 1 GHz =	560
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	0.043	0.013	1771
0.20	0.062	0.019	1252
0.40	0.088	0.027	885
0.60	0.108	0.033	723
1.00	0.141	0.043	560
1.50	0.174	0.053	457
2.00	0.203	0.062	396
6.00	0.367	0.112	229

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