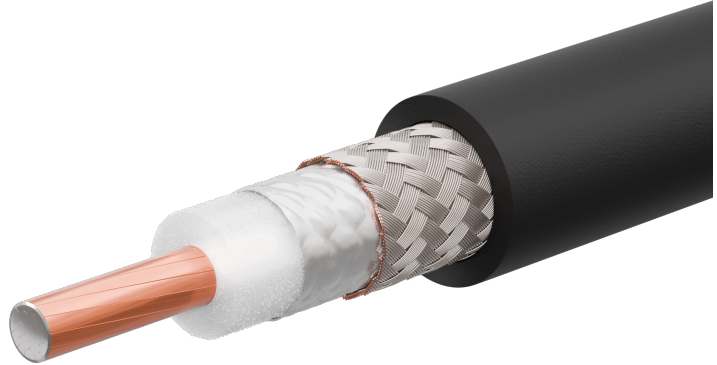


High-flexible, Low-loss, 50 Ohm, 6 GHz, 85°C, ø15.00 mm, TPU jacket

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

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

SPUMA_600-RS-FR

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85240547	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: qualifications ongoing.

Suitable connectors

Cable group	X29
-------------	-----

Ordering information

Item number	Item description	Available as assembly only
85240547	SPUMA_600-RS-FR	No

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 GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (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

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P46815 / Date of publication: 02.06.2025 / uncontrolled copy