

Coaxial Cable SX_10162_B-01

Description

Double screened low loss coaxial cable - flame retardant - free of halogen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium / Copper	Wire	3.8 mm
Dielectric	SPEX (Crosslink Foam PE)		9.9 mm
Outer conductor	Copper	longitudinal Foil, 100%	10 mm
	Copper	Braid, 80 %	10.8 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	12.9 mm +/- 0.2

Print: HUBER+SUHNER SX 10162 B-01 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	7.5 GHz
Capacitance	79 pF/m
Velocity of signal propagation	85.7 %
Signal delay	3.89 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 90 dB (up to 7.5 GHz)
Max. operating voltage	≤ 1.7 kV _{rms} (at sea level)
Test voltage	3.4 kV _{rms} (50 Hz/1 min)
Phase vs Temperature	-40°C... + 70°C

Mechanical Data

Weight	18.5 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) 50 mm 60 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-3 (C),
Halogen test	IEC 60754
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	SX_10162_B-01
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Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable group	S39 10 mm / 50 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.0828

b = 0.0625

f_{max} = 7.5

P at 1GHz = 635

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,38	0,07	0,023	1030
0,75	0,12	0,036	733
1,12	0,16	0,048	600
1,5	0,2	0,059	518
1,88	0,23	0,070	463
2,25	0,26	0,081	423
2,62	0,3	0,091	392
3,0	0,33	0,101	367
3,38	0,36	0,111	345
3,75	0,39	0,120	328
4,12	0,43	0,130	313
4,5	0,46	0,139	299
4,88	0,49	0,149	287
5,25	0,52	0,158	277
5,62	0,55	0,167	268
6,0	0,58	0,176	259
6,38	0,61	0,185	251
6,75	0,64	0,194	244
7,12	0,67	0,203	238
7,5	0,7	0,212	232