

## 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 <sup>8</sup> MΩm
Min. screening effectiveness		≥ 90 dB (up to 7.5 GHz)
Max. operating voltage		≤ 1.7 kV <sub>rms</sub> (at sea level)
Test voltage		3.4 kV <sub>rms</sub> (50 Hz/1 min)
Phase vs Temperature	-40°C... + 70°C	

#### Mechanical Data

Weight		18.5 kg/100 m
Min. bending radius	static	50 mm
	repeated (for ≤ 50 bendings)	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
2011/95/EC (RoHS)	compliant

### Additional Information

#### Ordering Information

Order as SX\_10162\_B-01

#### 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<sub>max</sub> = 7.5

P at 1GHz = 635

Frequency (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) 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