

Coaxial Cable SX_04272_D-02

Description

PE Foam cross-linked - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	SPEX (Crosslink Foam PE)		3.82 mm
Outer conductor	Copper, Silver plated	Braid, 97%	4.2 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	4.7 mm
Jacket	RADOX	RAL 9005 - bk	5.7 mm +/- 0.15

Print: HUBER+SUHNER SX 04272 D-02 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	81.6 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Min. screening effectiveness	≥ 80 dB (up to 6 GHz)
Max. operating voltage	≤ 0.5 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	6.2 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic
	28 mm 58 mm 85 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1, UL 1581 § 1080 (VW-1),
Halogen test	IEC 60754
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as SX_04272_D-02

Remarks

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

Suitable Connectors

Cable group S16 4 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 = 0.264

b = 0.062

$f_{max} = 6$

P at 1GHz = 190

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
0.3	0.16	0.050	347
0.6	0.24	0.074	245
0.9	0.31	0.093	200
1.2	0.36	0.111	173
1.5	0.42	0.127	155
1.8	0.47	0.142	142
2.1	0.51	0.156	131
2.4	0.56	0.170	123
2.7	0.6	0.183	116
3.0	0.64	0.196	110
3.3	0.68	0.209	105
3.6	0.72	0.221	100
3.9	0.76	0.233	96
4.2	0.8	0.244	93
4.5	0.84	0.256	90
4.8	0.88	0.267	87
5.1	0.91	0.278	84
5.4	0.95	0.289	82
5.7	0.98	0.300	80
6.0	1.02	0.310	78