

Coaxial Cable SX_07272_BD

Description

PE Foam cross-linked - 50 Ohm - high screened - precision type



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Strand: Copper - Silver plated	Strand-07	2.85 mm
Dielectric	SPEX (Crosslink Foam PE)		7.35 mm
Outer conductor	Copper, Silver plated	Braid, 96%	8.1 mm
Outer Conductor	Copper	wrapped Foil, 30 %	8.2 mm
Outer Conductor	Copper, Tin plated	Braid, 93 %	9.1 mm
Jacket	RADOX	RAL 9005 - bk	10.8 mm +/- 0.15

Print: HUBER + SUHNER SX 07272 BD 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 1
Operating Frequency	3 GHz
Capacitance	82 pF/m
Velocity of signal propagation	82 %
Signal delay	4.1 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 105 dB (up to GHz)
Max. operating voltage	≤ 1.05 kV _{rms} (at sea level)
Test voltage	2.1 kV _{rms} (50 Hz/1 min)
Phase vs Bending	0.4 °/GHz

Mechanical Data

Weight	19.8 kg/100 m
Min. bending radius	static 70 mm repeated (for ≤ 50 bendings) 110 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
Ozone test	IEC 811-2-1 - class 8
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as SX_07272_BD

Remarks

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

Suitable Connectors

Cable group S32 7 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 = 0.1827

b = 0.0605

f_{max} = 3

P at 1GHz = 505

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
0,15	0,08	0,024	1304
0,3	0,12	0,036	922
0,45	0,15	0,046	753
0,6	0,18	0,054	652
0,75	0,2	0,062	583
0,9	0,23	0,069	532
1,05	0,25	0,076	493
1,2	0,27	0,083	461
1,35	0,29	0,090	435
1,5	0,31	0,096	412
1,65	0,33	0,102	393
1,8	0,35	0,108	376
1,95	0,37	0,114	362
2,1	0,39	0,119	348
2,25	0,41	0,125	337
2,4	0,43	0,131	326
2,55	0,45	0,136	316
2,7	0,46	0,141	307
2,85	0,48	0,147	299
3,0	0,5	0,152	292