

Flexible RF cable SX_03272_B-60

Description

SX: Low loss RF cables with cross-linked foam PE dielectrics

50 Ohm, 5 GHz, 105°C, ø4.5 mm, RADOX® jacket, Flame retardant, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper	Wire	1.065 mm
Dielectric	SPEX (Crosslink Foam PE)		2.96 mm
Outer conductor	Aluminum / PES	longitudinal Foil, 100%	3.2 mm
Outer conductor	Copper, Tin plated	Braid, 90 %	3.8 mm
Jacket	RADOX	RAL 9005 - bk	4.5 mm +/- 0.15

Print: HUBER+SUHNER SX 03272 B-60 50 Ohm (UL logo) AWM Style 1354 (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	5 GHz
Capacitance	82 pF/m
Velocity of signal propagation	81 %
Signal delay	4.1 ns/m
Screening effectiveness	≥ 85 dB (up to 2 GHz)
Operating voltage	≤ 0.4 kV _{rms} (at sea level)
Test voltage	0.8 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight		3.25 kg/100 m
Min. bending radius	static	20 mm
		40 mm

Environmental Data

Temperature range	-40 °C ... +105 °C
Temperature rating UL	80 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	UL 1581 § 1090,
Halogen free	Yes
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant

Additional Information

Ordering Information

Order as	SX_03272_B-60
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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	X7 3 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 = 0.324

b = 0.0457

f_{max} = 5

P at 1GHz = 130

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 (W) sea level 40° C ambient temperature
0,25	0,17	0,053	260
0,5	0,25	0,077	184
0,75	0,31	0,096	150
1,0	0,37	0,113	130
1,25	0,42	0,128	116
1,5	0,47	0,142	106
1,75	0,51	0,155	98
2,0	0,55	0,168	92
2,25	0,59	0,179	87
2,5	0,63	0,191	82
2,75	0,66	0,202	78
3,0	0,7	0,213	75
3,25	0,73	0,223	72
3,5	0,77	0,233	69
3,75	0,8	0,243	67
4,0	0,83	0,253	65
4,25	0,86	0,263	63
4,5	0,89	0,272	61
4,75	0,92	0,281	60
5,0	0,95	0,290	58

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