

## Coaxial Cable SX\_03272\_D-01

### Description

PE Foam cross-linked - 50 Ohm - double screen



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.1 mm
Dielectric	SPEX (Crosslink Foam PE)		2.96 mm
Outer conductor	Copper, Silver plated	Braid, 95%	3.6 mm
Outer conductor	Copper, Silver plated	Braid, 93 %	4.2 mm
Jacket	RADOX	RAL 9005 - bk	5.4 mm +/- 0.15

Print: HUBER+SUHNER SX 03272 D-01 50 Ohm (PA no.)

#### Electrical Data

Impedance	50 $\Omega$ +/- 2
Operating Frequency	6 GHz
Capacitance	81.6 pF/m
Velocity of signal propagation	82 %
Signal delay	4.08 ns/m
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	$\geq 80$ dB (up to 6 GHz)
Max. operating voltage	$\leq 0.45$ kV <sub>rms</sub> (at sea level)
Test voltage	0.9 kV <sub>rms</sub> (50 Hz/1 min)

#### Mechanical Data

Weight	6.1 kg/100 m
Min. bending radius	static repeated (for $\leq 50$ bendings)
	30 mm 60 mm

#### Environmental Data

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

### Additional Information

#### Ordering Information

Order as SX\_03272\_D-01

#### Remarks

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

#### Suitable Connectors

Cable group X25 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 = 0.35

b = 0.0428

f<sub>max</sub> = 6

P at 1GHz = 170

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	0.2	0.062	310
0.6	0.3	0.090	219
0.9	0.37	0.113	179
1.2	0.43	0.133	155
1.5	0.49	0.150	139
1.8	0.55	0.167	127
2.1	0.6	0.182	117
2.4	0.64	0.197	110
2.7	0.69	0.211	103
3.0	0.73	0.224	98
3.3	0.78	0.237	94
3.6	0.82	0.249	90
3.9	0.86	0.262	86
4.2	0.9	0.273	83
4.5	0.94	0.285	80
4.8	0.97	0.296	78
5.1	1.01	0.307	75
5.4	1.04	0.318	73
5.7	1.08	0.329	71
6.0	1.11	0.340	69