Data Sheet

Coaxial Cable Enviroflex_B400

Description

PE Foam - 50 Ohm - double screen

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1 mm
Dielectric	SPE (Foamed Polyethylene)		3 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 70%	3.4 mm
Outer conductor	Copper, Tin plated	Braid, 94 %	4 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5 mm +/- 0.1

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Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	94.5 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Insulation resistance	≥ 1 x 10^7 MΩm
Min. screening effectiveness	≥ 45 dB (up to 6 GHz)
Max. operating voltage	≤ 2.5 kV_{rms} (at sea level)
Test voltage	5 kV_{rms} (50 Hz/1 min)

Mechanical Data

Weight		4.3 kg/100 m
Min. bending radius	static	20 mm
	repeated (for ≤ 50 bendings)	40 mm
	dynamic	40 mm

Environmental Data

Temperature range	-40 °C... +85 °C
Installation temperature	-20 °C... +60 °C
Flammability	IEC 60332-1,
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	Enviroflex_B400

Remarks

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

Suitable Connectors

Cable group	U11 3 mm / 50 Ohm

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Matrix typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]
Coefficients:

a = 0.402	b = 0.142	f_{max} = 6	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 (watt) sea level 40° C ambient temperature
0,3	0,26	0,080	237
0,6	0,4	0,121	168
0,9	0,51	0,155	137
1,2	0,61	0,186	119
1,5	0,71	0,215	106
1,8	0,79	0,242	97
2,1	0,88	0,268	90
2,4	0,96	0,294	84
2,7	1,04	0,318	79
3,0	1,12	0,342	75
3,3	1,2	0,365	72
3,6	1,27	0,388	69
3,9	1,35	0,411	66
4,2	1,42	0,433	63
4,5	1,49	0,455	61
4,8	1,56	0,476	59
5,1	1,63	0,497	58
5,4	1,7	0,518	56
5,7	1,77	0,539	54
6,0	1,84	0,560	53