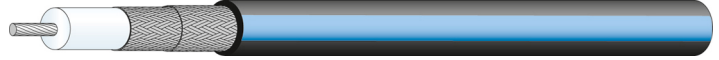


Coaxial Cable ENVIROFLEX_316_D-AM

Description

PE Foam cross-linked - 50 Ohm - double screen



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.54 mm
Dielectric	SPEX (Crosslink Foam PE)		1.53 mm
Outer conductor	Copper, Silver plated	Braid, 96%	1.99 mm
Outer conductor	Copper, Silver plated	Braid, 90 %	2.44 mm
Jacket	RADOX	black/bl line	3.16 mm +/- 0.08

Print: HUBER+SUHNER ENVIROFLEX 316 D-AM 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	94.5 pF/m
Velocity of signal propagation	70.1 %
Signal delay	4.72 ns/m
Insulation resistance	≥ 1 x 10 ⁷ MQm
Min. screening effectiveness	≥ 70 dB (up to 6 GHz)
Max. operating voltage	≤ 1.3 kV _{rms} (at sea level)
Test voltage	3 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		2.1 kg/100 m
Min. bending radius	static	5 mm
	repeated (for ≤ 50 bendings)	30 mm
	dynamic	30 mm

Environmental Data

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

Additional Information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant

Ordering Information

Order as ENVIROFLEX_316_D-AM

Remarks

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

Suitable Connectors

Cable group U4 2 mm / 50 Ohm

Coaxial Cable ENVIROFLEX_316_D-AM

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.7648

b = 0.1301

$f_{\max} = 6$

P at 1GHz = 110

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	0.46	0.140	201
0.6	0.67	0.204	142
0.9	0.84	0.257	116
1.2	0.99	0.303	100
1.5	1.13	0.345	90
1.8	1.26	0.384	82
2.1	1.38	0.421	76
2.4	1.5	0.456	71
2.7	1.61	0.490	67
3.0	1.71	0.523	64
3.3	1.82	0.554	61
3.6	1.92	0.585	58
3.9	2.02	0.615	56
4.2	2.11	0.644	54
4.5	2.21	0.673	52
4.8	2.3	0.701	50
5.1	2.39	0.729	49
5.4	2.48	0.756	47
5.7	2.57	0.783	46
6.0	2.65	0.809	45