

HUBER+SUHNER® DATA SHEET

Coaxial Cable: ENVIROFLEX_400

Rev.: P



Description

PE Foam cross-linked - 50 Ohm - double screen (UL AWM Style 3651)

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1 mm
Dielectric	SPEX (Crosslink Foam PE)		3.03 mm
Outer conductor	Copper, Silver plated	Braid, 96 %	3.72 mm
Outer conductor	Copper, Silver plated	Braid, 91 %	4.24 mm
Jacket	RADOX	black/bl line	5 mm +/- 0.1
Print	HUBER+SUHNER ENVIROFLEX 400 50 Ohm (UL logo) AWM Style 3651 (PA no.)		

Electrical Data

Impedance	50 Ω +/- 2
Max. operating frequency	6 GHz
Capacitance	94.5 pF/m
Velocity of signal propagation	70.7 %
Signal delay	4.71 ns/m
Insulation resistance	$\geq 1 \times 10^7$ M Ω m
Min. screening effectiveness	>70 dB (up to 6 GHz)
Max. operating voltage	2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	300 V

Mechanical Data

Weight	6 kg/100 m	
Min. bending radius	static	10 mm
	repeated (for max. 50 bendings)	40 mm
	dynamic	40 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Temp. Rating UL	105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	EN 60332-1-2, UL 1581 § 1100, IEC 60332-2
Smoke density	EN 61034-2
Halogen free	IEC 60754
Uv resistance test	IEC 60068-2-5, proc. C
Toxic fume	NF X 70-100
Abraision test	MIL-T-81490 - §4.7.19 - prod. II - modified
Thermal stress test	IEC 61196-1 § 10.9
2002/95/EC (RoHS)	compliant

Ordering Information

Order as ENVIROFLEX_400

Additional Information

Remarks

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

Cable group U11 3 mm / 50 Ohm

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

Coefficients:

a=	0.4868	b=	0.0761	f _{max.} =	6	p _{at} 1GHz =	225
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	0.3		0.29		0.088		411
	0.6		0.42		0.128		290
	0.9		0.53		0.162		237
	1.2		0.62		0.189		205
	1.5		0.71		0.216		184
	1.8		0.79		0.241		168
	2.1		0.87		0.265		155
	2.4		0.94		0.286		145
	2.7		1.01		0.308		137
	3.0		1.07		0.326		130
	3.3		1.14		0.347		124
	3.6		1.20		0.366		119
	3.9		1.26		0.384		114
	4.2		1.32		0.402		110
	4.5		1.38		0.421		106
	4.8		1.43		0.436		103
	5.1		1.49		0.454		100
	5.4		1.54		0.469		97
	5.7		1.60		0.488		94
	6.0		1.65		0.503		92

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

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