

HUBER+SUHNER® DATA SHEET

Coaxial Cable: ENVIROFLEX_179

Rev.: P



Description

PE Foam cross-linked - 75 Ohm - single screen (UL AWM Style 3651)

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.305 mm
Dielectric	SPEX (Crosslink Foam PE)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	2.13 mm
Jacket	RADOX	RAL 5015 - bl	2.54 mm +/- 0.07
Print	HUBER+SUHNER ENVIROFLEX 179 75 Ohm (UL logo)		AWM Style 3651 (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Max. operating frequency	1 GHz
Capacitance	63 pF/m
Velocity of signal propagation	70.7 %
Signal delay	4.71 ns/m
Insulation resistance	$\geq 1 \times 10^7 \text{ M}\Omega\text{m}$
Max. operating voltage	1 kV _{rms} (at sea level)
Test voltage	2 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	300 V

Mechanical Data

Weight	1.11 kg/100 m
Min. bending radius	static 7 mm
	repeated (for max. 50 bendings) 20 mm
	dynamic 27 mm

Environmental Data

Temperature range	-40 °C... + 105 °C
Temp. Rating UL	105 °C
Installation temperature	-20 °C... + 60 °C
Flammability	UL 1581 § 1100, IEC 60332-2, EN 60332-1-2
Smoke density	EN 61034-2
Halogen free	IEC 60754
Uv resistance test	IEC 60068-2-5, proc. C
Solar radiation	IEC 60068-2-5, proc. C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as ENVIROFLEX_179

Additional Information

DIN 5510-2 compliant

Remarks

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

Cable group U5 2 mm / 75 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=	0.7015	b=	0.1558	f _{max} =	1	p _{at} 1GHz =	45
	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
	0.05		0.16		0.049		201
	0.10		0.24		0.073		142
	0.15		0.30		0.091		116
	0.20		0.34		0.104		101
	0.25		0.39		0.119		90
	0.30		0.43		0.131		82
	0.35		0.47		0.143		76
	0.40		0.51		0.155		71
	0.45		0.54		0.165		67
	0.50		0.57		0.174		64
	0.55		0.61		0.186		61
	0.60		0.64		0.195		58
	0.65		0.67		0.204		56
	0.70		0.70		0.213		54
	0.75		0.72		0.219		52
	0.80		0.75		0.229		50
	0.85		0.78		0.238		49
	0.90		0.81		0.247		47
	0.95		0.83		0.253		46
	1.00		0.86		0.262		45

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

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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