

Coaxial Cable ENVIROFLEX_179-01

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 mm
Jacket	RADOX	RAL 9005 - bk	2.54 mm +/- 0.07

Print: HUBER+SUHNER ENVIROFLEX 179-01 75 Ohm (UL logo) AWM Style 3651 (PA no.)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	3 GHz
Capacitance	63 pF/m
Velocity of signal propagation	70 %
Signal delay	4.78 ns/m
Insulation resistance	$\geq 1 \times 10^7$ MQm
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	5 mm
	repeated (for ≤ 50 bendings)	25 mm

Environmental Data

Temperature range	-40 °C... +105 °C
Temperature Rating UL	105 °C
Installation temperature	-20 °C... +60 °C
Flammability	UL 1581 § 1100, UL 1581 § 1090
Smoke density	DIN EN 50268-2
Halogen test	IEC 60754
Uv resistance test	IEC 60068-2-5, proc. C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as	ENVIROFLEX_179-01
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Remarks

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

Suitable Connectors

Cable group	U5 2 mm / 75 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 = 0.8288

b = 0.0725

f_{max} = 3

P at 1GHz = 45

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
0,15	0,33	0,101	116
0,3	0,48	0,145	82
0,45	0,59	0,179	67
0,6	0,69	0,209	58
0,75	0,77	0,235	52
0,9	0,85	0,260	47
1,05	0,93	0,282	44
1,2	0,99	0,303	41
1,35	1,06	0,323	39
1,5	1,12	0,343	37
1,65	1,18	0,361	35
1,8	1,24	0,379	34
1,95	1,3	0,396	32
2,1	1,35	0,412	31
2,25	1,41	0,429	30
2,4	1,46	0,444	29
2,55	1,51	0,460	28
2,7	1,56	0,475	27
2,85	1,61	0,489	27
3,0	1,65	0,504	26