

Coaxial Cable
ENVIROFLEX_178

苏州启道 — 中国区优势专业供应商
sales@qiidao.com

Description

PE Foam cross-linked - 50 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)		0.82 mm
Outer conductor	Copper, Silver plated	Braid, 95%	1.27 mm
Jacket	RADOX	RAL 5010 - bl	1.84 mm +/- 0.07

Print: HUBER+SUHNER ENVIROFLEX 178 50 Ohm (UL logo) AWM Style 3651 (PA no.)

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		3 GHz
Capacitance		94.5 pF/m
Velocity of signal propagation		70.7 %
Signal delay		4.71 ns/m
Insulation resistance		≥ 1 x 10 ⁷ MQm
Min. screening effectiveness		≥ 40 dB (up to 3 GHz)
Max. operating voltage		≤ 1 kV _{rms} (at sea level)
Test voltage		2 kV _{rms} (50 Hz/1 min)
Voltage Rating UL		300 V
Phase vs Temperature	-40°C... + 100°C	8400 ppm
Phase vs Bending		0.7 °/GHz

Mechanical Data

Weight		0.65 kg/100 m
Min. bending radius	static repeated (for ≤ 50 bendings) dynamic	5 mm 20 mm 30 mm

Environmental Data

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

Additional Information

Ordering Information

Order as	ENVIROFLEX_178
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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	U1 1 mm / 50 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 = 1.4067

b = 0.2229

f_{max} = 3

P at 1GHz = 60

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (watt)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,15	0,58	0,176	155
0,3	0,84	0,255	110
0,45	1,04	0,318	89
0,6	1,22	0,373	77
0,75	1,39	0,422	69
0,9	1,54	0,468	63
1,05	1,68	0,511	59
1,2	1,81	0,551	55
1,35	1,94	0,590	52
1,5	2,06	0,627	49
1,65	2,17	0,663	47
1,8	2,29	0,698	45
1,95	2,4	0,731	43
2,1	2,51	0,764	41
2,25	2,61	0,796	40
2,4	2,71	0,827	39
2,55	2,81	0,858	38
2,7	2,91	0,888	37
2,85	3,01	0,917	36
3,0	3,11	0,946	35