

Flexible RF cable ENVIROFLEX_178 Item: 23010656

Description

Enviroflex: LSFH alternatives to RG cables

RG178 LSFH, 50 Ohm, 3 GHz, 105°C, ø1.84 mm, RADOX® jacket, Flame retardant, 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 (production order number)

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
Screening effectiveness		≥ 40 dB (up to 3 GHz)
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	5 mm
	repeated (for ≤ 30000 bendings)	20 mm
	dynamic	30 mm

Environmental Data

Temperature range	-40 °C ... +105 °C
Temperature rating UL	105 °C
Installation temperature	-20 °C... +60 °C
Cold bend test	MIL-C-17 § 4.8.19
Ageing test	MIL-C-17 § 4.8.16
Solar radiation test	IEC 60068-2-5, proc. C
Uv resistance test	IEC 60068-2-5, proc. C
Flame propagation test	UL 1581 § 1100,
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

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) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (W) 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

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