

Flexible RF cable

ENVIROFLEX_179-01 **Item: 84021688**

Description

Enviroflex: LSFH alternatives to RG cables

RG179 LSFH (black jacket), 75 Ohm, 3 GHz, 105°C, ø2.54 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)		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 (production order number)

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
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
Cold bend test	n/a
Ageing test	n/a
Uv resistance test	IEC 60068-2-5, proc. C
Flame propagation test	UL 1581 § 1100, UL 1581 § 1090
Smoke density test	DIN EN 50268-2
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2012/19/EU (WEEE)	no special marking needed

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	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 (W) 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