Data Sheet

HUBER+SUHNER

Flexible RF cable

Description

Enviroflex: LSFH alternatives to RG cables

RG179 LSFH, 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 5015 - bl	2.54 mm +/- 0.07

Print: HUBER+SUHNER ENVIROFLEX 179 75 Ohm (UL logo) AWM Style 3651 (production order number)

Electrical Data

75 O +/- 3 Impedance Operating Frequency 3 GHz Capacitance 63 pF/m Velocity of signal propagation 70 % Signal delay 4.78 ns/m Screening effectiveness ≥ 40 dB (up to 1 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
 1.11 kg/100 m

 Min. bending radius
 5 mm

 repeated (for ≤ 50 bendings)
 25 mm

Environmental Data

-40 °C ... +105 °C Temperature range Temperature rating UL 105 °C Installation temperature -20 °C... +60 °C MIL-C-17 § 4.8.19 Cold bend test 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 UL 1581 § 1100, IEC 60332-2, EN Flame propagation test 60332-1-2 Smoke density test EN 61034-2 IEC 60754 Halogen test Halogen free Yes 2011/65/EU (RoHS - including compliant 2015/863 and 2017/2102) 1907/2006/EC (REACH) compliant 2000/53/EC (ELV) compliant

Additional Information

Railway certificates discontinued by end of 2017. Replacement type for railway: RADOX RF 179.

no special marking needed

Remarks

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

Suitable Connectors

2012/19/EU (WEEE)

Cable group U5 2 mm / 75 Ohm

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Flexible RF cable ENVIROFLEX_179

X_179 Item: 23019104

Matrix typical Attenuation [formula: (a*f^0.5 + b*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	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB / m)	(dB / ft)	(W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	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

HUBER+SUHNER is certified according to ISO 9001, ISO 14001, AS/EN9100, ISO/TS 16949 and IRIS.

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