

## Flexible RF cable

**ENVIROFLEX\_316-03**    Item: 84027942

## Description

Enviroflex: LSFH alternatives to RG cables

RG316 LSFH (black jacket), 50 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	0.54 mm
Dielectric	SPEX (Crosslink Foam PE)		1.53 mm
Outer conductor	Copper, Silver plated	Braid, 99%	1.99 mm
Jacket	RADOX	RAL 9005 - bk	2.54 mm +/- 0.07

Print: HUBER+SUHNER ENVIROFLEX 316-03 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
Operating voltage	≤ 1.5 kV <sub>rms</sub> (at sea level)
Test voltage	3 kV <sub>rms</sub> (50 Hz/1 min)
Voltage Rating UL	300 V

### Mechanical Data

Weight		1.6 kg/100 m
Min. bending radius	static	5 mm
	repeated (for ≤ 30000 bendings)	25 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
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 U2 2 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 = 0.812

b = 0.1504

f<sub>max</sub> = 3

P at 1GHz = 90

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	0,34	0,103	232
0,3	0,49	0,149	164
0,45	0,61	0,187	134
0,6	0,72	0,219	116
0,75	0,82	0,249	104
0,9	0,91	0,276	95
1,05	0,99	0,302	88
1,2	1,07	0,326	82
1,35	1,15	0,349	77
1,5	1,22	0,372	73
1,65	1,29	0,394	70
1,8	1,36	0,415	67
1,95	1,43	0,435	64
2,1	1,49	0,455	62
2,25	1,56	0,474	60
2,4	1,62	0,493	58
2,55	1,68	0,512	56
2,7	1,74	0,530	55
2,85	1,8	0,548	53
3,0	1,86	0,566	52