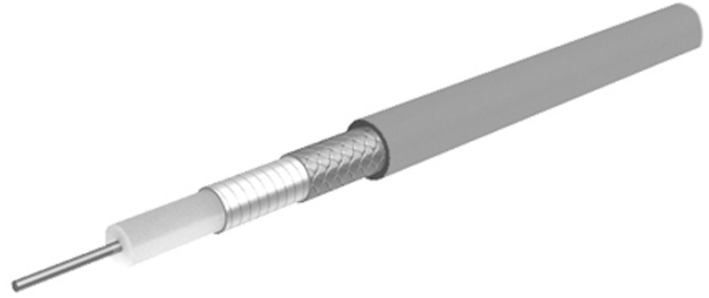


Flexible microwave cable EACON_2C

Description

Eacon: Field mountable flexible microwave cables
50 Ohm, 18 GHz, 200°C, ø3.75 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.81 mm
Dielectric	PTFE-LD		2.4 mm
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	2.65 mm
Outer conductor	Copper, Silver plated	Braid	3.35 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9010 - wh	3.75 mm +/- 0.1

Electrical Data

Impedance	50 Ω
Operating Frequency	18 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating voltage	≤ 1.4 kV _{rms} (at sea level)

Mechanical Data

Weight		3.9 kg/100 m
Min. bending radius	static	12 mm
	dynamic	20 mm

Environmental Data

Temperature range	-55 °C ... +200 °C
Flame propagation test	MIL-T-87104 § 4.6.4.8, , FAR 25.869
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Ordering Information

Order as EACON_2C

Remarks

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

Suitable Connectors

Cable group U92 EACON_2C

Flexible microwave cable EACON_2C

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.37

b = 0.0071

$f_{max} = 18$

P at 1GHz = 394

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
0,9	0,36	0,109	415
1,8	0,51	0,155	294
2,7	0,63	0,191	240
3,6	0,73	0,222	208
4,5	0,82	0,249	186
5,4	0,9	0,274	170
6,3	0,97	0,297	157
7,2	1,04	0,318	147
8,1	1,11	0,338	138
9,0	1,17	0,358	131
9,9	1,23	0,376	125
10,8	1,29	0,394	120
11,7	1,35	0,411	115
12,6	1,4	0,428	111
13,5	1,46	0,444	107
14,4	1,51	0,459	104
15,3	1,56	0,474	101
16,2	1,6	0,489	98
17,1	1,65	0,503	95
18,0	1,7	0,517	93