

## Flexible microwave cable EACON\_4C

### Description

Eacon: Field mountable flexible microwave cables  
 50 Ohm, 18 GHz, 200°C, ø5.4 mm, FEP jacket



### Technical Data

#### Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	1.4 mm
Dielectric	PTFE-LD		4.15 mm
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	4.28 mm
Outer conductor	Copper, Silver plated	Braid	4.9 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 9010 - wh	5.4 mm +/- 0.15

Print: HUBER+SUHNER EACON 4C 50 OHM Lot-No..

#### 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	≤ 2.6 kV <sub>rms</sub> (at sea level)

#### Mechanical Data

Weight		7.3 kg/100 m
Min. bending radius	static	15 mm
	repeated	
	dynamic	25 mm

#### Environmental Data

Temperature range	-55 °C ... +200 °C
Flame propagation test	FAR 25.869,
Halogen free	No
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

### Additional Information

Available as bulk cable

#### Ordering Information

Order as EACON\_4C

#### Remarks

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

#### Suitable Connectors

Cable group U94 EACON\_4C

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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 = 0.2291

b = 0.0071

f<sub>max</sub> = 18

P at 1GHz = 907

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	0,22	0,068	956
1,8	0,32	0,098	676
2,7	0,4	0,121	552
3,6	0,46	0,140	478
4,5	0,52	0,158	428
5,4	0,57	0,174	390
6,3	0,62	0,189	361
7,2	0,67	0,203	338
8,1	0,71	0,216	319
9,0	0,75	0,229	302
9,9	0,79	0,241	288
10,8	0,83	0,253	276
11,7	0,87	0,264	265
12,6	0,9	0,275	256
13,5	0,94	0,286	247
14,4	0,97	0,296	239
15,3	1,0	0,306	232
16,2	1,04	0,316	225
17,1	1,07	0,326	219
18,0	1,1	0,335	214