

Coaxial Cable EACON_2C

Description

EACON_2C, the field terminated microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.81 mm
Dielectric	PTFE (Polytetrafluoroethylene)		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

Electrical Data

Impedance	50 Ω
Operating Frequency	18 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MQm
Min. screening effectiveness	≥ 90 dB (up to 18 GHz)
Max. 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
Flammability	MIL-T-87104 § 4.6.4.8, , FAR 25.869
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as EACON_2C

Remarks

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

Suitable Connectors

Cable group U92 EACON_2C

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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 = 0.37

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 (watt) 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