

Coaxial Cable EZ_86_CU_TP_M17

Description

SEMI RIGID, the formstable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.2 mm

Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	40 GHz
Capacitance	105 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness	≥ 120 dB (up to 20 GHz)
Max. operating voltage	≤ 1.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	2.38 kg/100 m
Min. bending radius	static 3.18 mm

Environmental Data

Temperature range	-55 °C... +125 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	EZ_86_CU_TP_M17
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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	Y3 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 = 0.58454

b = 0.03967

$f_{max} = 40$

P at 1GHz = 130

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
2,0	0,91	0,276	92
4,0	1,33	0,405	65
6,0	1,67	0,509	53
8,0	1,97	0,601	46
10,0	2,25	0,684	41
12,0	2,5	0,762	38
14,0	2,74	0,836	35
16,0	2,97	0,906	33
18,0	3,19	0,973	31
20,0	3,41	1,039	29
22,0	3,61	1,102	28
24,0	3,82	1,163	27
26,0	4,01	1,223	25
28,0	4,2	1,281	25
30,0	4,39	1,339	24
32,0	4,58	1,395	23
34,0	4,76	1,450	22
36,0	4,94	1,504	22
38,0	5,11	1,558	21
40,0	5,28	1,610	21