

Coaxial Cable EZ_86_CT

Description

SEMI RIGID, the formstable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.62 mm
Dielectric	Low density fluorine polymer		1.71 mm
Outer conductor	Aluminum / TP	Tube, 100%	2.2 mm

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		40 GHz
Capacitance		92 pF/m
Velocity of signal propagation		80 %
Signal delay		4.2 ns/m
Insulation resistance		≥ 1 x 10 ⁸ MΩm
Min. screening effectiveness		≥ 120 dB (up to 20 GHz)
Phase vs Temperature	-65°C... + 125°C	400 ppm

Mechanical Data

Weight		2.25 kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-55 °C... +200 °C
Installation temperature	-20 °C... +60 °C
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as	EZ_86_CT
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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	U99 Customer Specific
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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 = 0.53

b = 0.019

$f_{max} = 40$

P at 1GHz = 133

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	0.79	0.240	94
4.0	1.14	0.346	67
6.0	1.41	0.430	54
8.0	1.65	0.503	47
10.0	1.87	0.569	42
12.0	2.06	0.629	38
14.0	2.25	0.685	36
16.0	2.42	0.739	33
18.0	2.59	0.790	31
20.0	2.75	0.838	30
22.0	2.9	0.885	28
24.0	3.05	0.930	27
26.0	3.2	0.974	26
28.0	3.34	1.017	25
30.0	3.47	1.058	24
32.0	3.61	1.099	24
34.0	3.74	1.139	23
36.0	3.86	1.178	22
38.0	3.99	1.216	22
40.0	4.11	1.253	21