

Coaxial Cable EZ_141_TP_M17

Description

SEMI RIGID, the formstable microwave cable



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.99 mm
Outer conductor	Copper, Tin plated	Tube, 100%	3.58 mm

Electrical Data

Impedance	50 Ω +/- 1
Operating Frequency	33 GHz
Capacitance	98.1 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 18 GHz)
Max. operating voltage	≤ 1.9 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.21 kg/100 m
Min. bending radius	static 6.35 mm

Environmental Data

Temperature range	-55 °C... +125 °C
Installation temperature	-20 °C... +60 °C
2011/65/EU (RoHS)	compliant

Additional Information

Ordering Information

Order as EZ_141_TP_M17

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 Y5 3 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 = 0.32544

b = 0.03967

f_{max} = 33

P at 1GHz = 450

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
1.65	0.48	0.147	350
3.3	0.72	0.220	248
4.95	0.92	0.281	202
6.6	1.1	0.335	175
8.25	1.26	0.385	157
9.9	1.42	0.432	143
11.55	1.56	0.477	132
13.2	1.71	0.520	124
14.85	1.84	0.562	117
16.5	1.98	0.602	111
18.15	2.11	0.642	106
19.8	2.23	0.681	101
21.45	2.36	0.719	97
23.1	2.48	0.756	94
24.75	2.6	0.793	90
26.4	2.72	0.829	88
28.05	2.84	0.864	85
29.7	2.95	0.900	83
31.35	3.07	0.934	80
33.0	3.18	0.969	78