

Coaxial Cable EZ_141_AL_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	Aluminum / TP	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)

Mechanical Data

Weight	3.05 kg/100 m
Min. bending radius	static 3.18 mm

Environmental Data

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

Additional Information

Ordering Information

Order as EZ_141_AL_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 = 0.34536

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	0.51	0.155	350
3.3	0.76	0.231	248
4.95	0.96	0.294	202
6.6	1.15	0.350	175
8.25	1.32	0.402	157
9.9	1.48	0.451	143
11.55	1.63	0.497	132
13.2	1.78	0.542	124
14.85	1.92	0.585	117
16.5	2.06	0.627	111
18.15	2.19	0.668	106
19.8	2.32	0.708	101
21.45	2.45	0.747	97
23.1	2.58	0.785	94
24.75	2.7	0.823	90
26.4	2.82	0.860	88
28.05	2.94	0.897	85
29.7	3.06	0.933	83
31.35	3.18	0.968	80
33.0	3.29	1.004	78