

HUBER+SUHNER® DATA SHEET

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		2.99 mm
Outer conductor	Aluminum / TP	Tube, 100 %	3.58 mm

Electrical Data

Impedance	50 Ω +/- 1
Max. operating frequency	33 GHz
Capacitance	98.1 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Insulation resistance	$\geq 1 \times 10^8$ M Ω m
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
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	EZ_141_AL_TP_M17
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Additional Information

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	crimped (Y5) clamped (Y12) soldered —
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Matrix **Attenuation** [formula: $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula: $(p \cdot f^{0.5})$]

Coefficients:

a=	0.34536	b=	0.03967	f _{max} =	33	p _{at} 1GHz =	450
	Frequency		Nom. attenuation		Nom. attenuation		Max. CW power
	(GHz)		(dB / m)		(dB / ft)		(watt)
			sea level 25° C ambient temperature		sea level 25° C ambient temperature		sea level 40° C ambient temperature
	1.7		0.52		0.158		345
	3.3		0.76		0.232		248
	5.0		0.97		0.296		201
	6.6		1.15		0.351		175
	8.3		1.32		0.402		156
	9.9		1.48		0.451		143
	11.6		1.64		0.500		132
	13.2		1.78		0.543		124
	14.9		1.92		0.585		117
	16.5		2.06		0.628		111
	18.2		2.20		0.671		105
	19.8		2.32		0.707		101
	21.5		2.45		0.747		97
	23.1		2.58		0.786		94
	24.8		2.70		0.823		90
	26.4		2.82		0.859		88
	28.1		2.95		0.899		85
	29.7		3.06		0.933		83
	31.4		3.18		0.969		80
	33.0		3.29		1.003		78

HUBER+SUHNER is certified according to ISO 9001 and ISO 14001

WAIVER!

It is exclusively in written agreements that we provide our customers with warrants and representations as to the technical specifications and/or the fitness for any particular purpose. The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.



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