

HUBER+SUHNER® DATA SHEET

Coaxial Cable: EZ_47_TP_M17



Description

SEMI RIGID, the formstable microwave cable

Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.29 mm
Dielectric	PTFE		0.93 mm
Outer conductor	Copper / TP	Tube, 100 %	1.19 mm

Electrical Data

Impedance	50	Ω +/- 2.5
Max. operating frequency	107	GHz
Capacitance	105	pF/m
Velocity of signal propagation	69.5	%
Signal delay	4.8	ns/m
Insulation resistance	$\geq 1 \times 10^8$	$M\Omega m$
Min. screening effectiveness	>120	dB (up to 18 GHz)
Max. operating voltage	1	kV _{rms} (at sea level)

Mechanical Data

Weight	0.71	kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-40 °C... + 100 °C
Installation temperature	-20 °C... + 60 °C
2002/95/EC (RoHS)	compliant

Ordering Information

Order as	EZ_47_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 (Y2)
	clamped —
	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=	1.04044	b=	0.03967	f _{max.} =	107	p _{at} 1GHz =	32
	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
	5.4		2.63		0.802		14
	10.7		3.83		1.167		10
	16.1		4.81		1.466		8
	21.4		5.66		1.725		7
	26.8		6.45		1.966		6
	32.1		7.17		2.185		6
	37.5		7.86		2.396		5
	42.8		8.50		2.591		5
	48.2		9.14		2.786		5
	53.5		9.73		2.966		4
	58.9		10.32		3.145		4
	64.2		10.88		3.316		4
	69.6		11.44		3.487		4
	74.9		11.98		3.651		4
	80.3		12.51		3.813		4
	85.6		13.02		3.968		3
	91.0		13.54		4.127		3
	96.3		14.03		4.276		3
	101.7		14.53		4.429		3
	107.0		15.01		4.575		3

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

WAIVER!

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