

Formable microwave cable

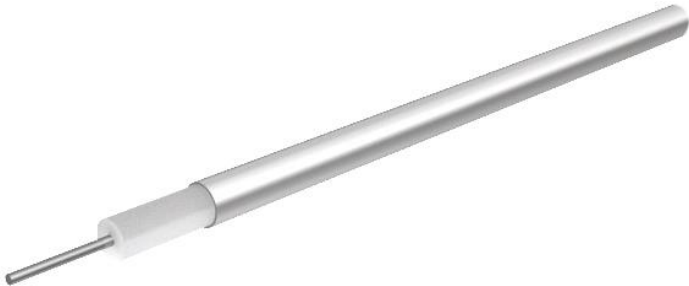
SR_86_TP_M17-QPL Item: 85196184

Description

Semi-rigid: Semi-rigid, formable microwave cables

M17/133-00001

RG405 dimension, MIL style, 50 Ohm, 20 GHz, 125°C, ø2.2 mm



Technical Data

Construction			
	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.2 mm

Electrical Data

Impedance	50 Ω +/- 1.5
Operating Frequency	20 GHz
Capacitance	105 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	≥ 120 dB (up to 20 GHz)
Operating voltage	≤ 1.5 kVrms (at sea level)

Mechanical Data

Weight		2.35 kg/100 m
Min. bending radius	static	3.18 mm

Environmental Data

Temperature range	-40 °C ... +125 °C
Installation temperature	-20 °C... +60 °C
Halogen free	No
2011/65/EU (RoHS - including	
2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

Cable groupY3-QPL, 2 mm / 50 Ohm

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Coefficients:

a = 0.5672 b = 0.0854 f_{max} = 20 P at 1GHz = 130

Frequency	Nom. attenuation	Nom. attenuation	Max. CW power
(GHz)	(dB/m)	(dB/ft)	(W)
	sea level 25 °C ambient temperature	sea level 25 °C ambient temperature	sea level 25 °C ambient temperature
0.5	0.49	0.15	180
1.0	0.72	0.22	130
5.0	1.64	0.50	54
10.0	2.62	0.80	35
20.0	4.24	1.30	20

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