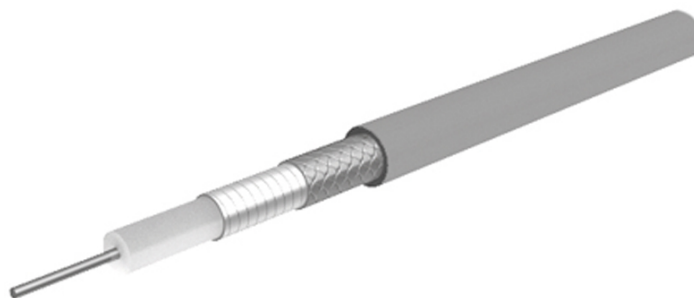


Flexible microwave cable MULTIFLEX_141

Description

Multiflex: Flexible alternatives to semi-rigid microwave cables

RG402 dimension, 50 Ohm, 33 GHz, 165°C, Ø4.14 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.93 mm
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	3.21 mm
Outer conductor	Multi-end: Copper - Tinned	Braid, 83 %	3.53 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	4.14 mm +/- 0.1

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Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	33 GHz
Capacitance	95 pF/m
Velocity of signal propagation	70.6 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating voltage	≤ 1.9 kV _{rms} (at sea level)
Test voltage	3.8 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	4.5 kg/100 m
Min. bending radius	static repeated dynamic
	10 mm
	40 mm

Environmental Data

Temperature range	-65 °C ... +165 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1, UL 1581 § 1080 (VW-1)
Halogen free	No
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Ordering Information

Order as MULTIFLEX_141

Remarks

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

Suitable Connectors

Cable group Y17 3 mm / 50 Ohm

Flexible microwave cable MULTIFLEX_141

Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.3732

b = 0.0279

f_{max} = 33

P at 1GHz = 373

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 (W) sea level 40° C ambient temperature
1,65	0,53	0,160	290
3,3	0,77	0,235	205
4,95	0,97	0,295	168
6,6	1,14	0,348	145
8,25	1,3	0,397	130
9,9	1,45	0,442	119
11,55	1,59	0,485	110
13,2	1,72	0,526	103
14,85	1,85	0,565	97
16,5	1,98	0,602	92
18,15	2,1	0,639	88
19,8	2,21	0,675	84
21,45	2,33	0,709	81
23,1	2,44	0,743	78
24,75	2,55	0,776	75
26,4	2,65	0,809	73
28,05	2,76	0,841	70
29,7	2,86	0,872	68
31,35	2,96	0,903	67
33,0	3,06	0,934	65

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