

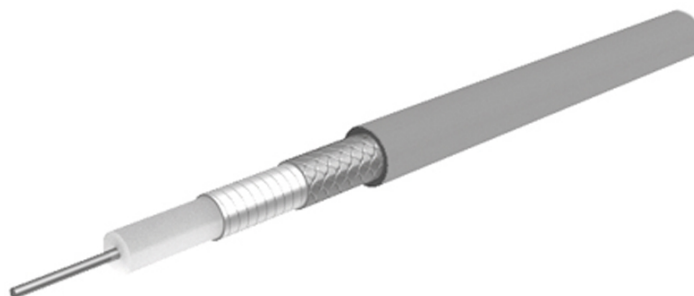
Flexible microwave cable

MULTIFLEX_141_CT Item: 85106242 Only as Assembly

Description

Multiflex: Flexible alternatives to semi-rigid microwave cables

RG402 dimension, 50 Ohm, 33 GHz, 200°C, ø4.2 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium, Copper clad, Silver plated	Wire	
Dielectric	Low density fluorine polymer		
Outer conductor	Copper, Silver plated	wrapped Foil, 100%	
Outer conductor	Copper, Silver plated	Braid, 84 %	
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	4.2 mm +/- 0.1

Print: HUBER+SUHNER MULTIFLEX 141 CT 50 Ohm (PA no.)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	33 GHz
Capacitance	80 pF/m
Velocity of signal propagation	84 %
Signal delay	4 ns/m
Screening effectiveness	≥ 90 dB (up to 18 GHz)
Operating voltage	≤ 0.5 kV _{rms} (at sea level)
Test voltage	1 kV _{rms} (50 Hz/1 min)
Phase vs Temperature	-55°C... + 125°C 300 ppm

Mechanical Data

Weight	2.9 kg/100 m
Min. bending radius	static 12 mm
	dynamic 40 mm

Environmental Data

Temperature range	-65 °C ... +200 °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 group	Y27 3mm / 50 Ohm
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Coefficients:

a = 0.296

b = 0.02

f_{max} = 33

P at 1GHz = 457

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 40° C ambient temperature
1,65	0,41	0,126	356
3,3	0,6	0,184	252
4,95	0,76	0,231	205
6,6	0,89	0,272	178
8,25	1,02	0,309	159
9,9	1,13	0,344	145
11,55	1,24	0,377	134
13,2	1,34	0,408	126
14,85	1,44	0,438	119
16,5	1,53	0,467	113
18,15	1,62	0,495	107
19,8	1,71	0,522	103
21,45	1,8	0,549	99
23,1	1,88	0,574	95
24,75	1,97	0,600	92
26,4	2,05	0,624	89
28,05	2,13	0,649	86
29,7	2,21	0,673	84
31,35	2,28	0,696	82
33,0	2,36	0,719	80