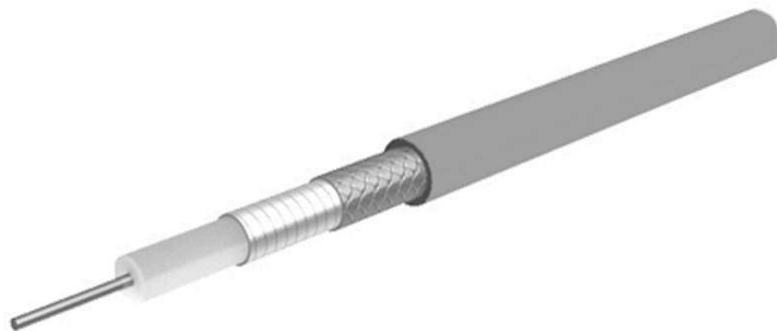


## Flexible (RG402) 50 Ohm, 33 GHz, 165 °C, ø4.14 mm, FEP jacket

MULTIFLEX\_141

### Properties

- Flexible alternative to semi-rigid cables
- Wide temperature range
- Suitable for use in applications up to 33 GHz



### Construction

Component	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 mm

### Electrical data

Impedance	50 Ω +/-2Ω
Operating frequency	≤ 33 GHz
Capacitance	95 pF/m
Velocity of signal propagation	70.6 %
Signal delay	4.7 ns/m
Screening effectiveness	≥ 90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 3.8 kVrms

### Mechanical data

Weight	approx. 45 g/m
Static bending radius	≥ 10 mm
Dynamic bending radius	≥ 40 mm

### Environmental data

Operation temperature	-65 °C ... 165 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)

## Flexible (RG402) 50 Ohm, 33 GHz, 165°C, Ø4.14 mm, FEP jacket MULTIFLEX\_141

Environmental data	
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y17
	Y17

Ordering information		
Item number	Item description	Available as assembly only
22511964	MULTIFLEX_141	No

Power Matrix			
Calculation: typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5) ]			
a coefficient typical =	<b>0.3732</b>	b coefficient typical =	<b>0.0279</b>
fmax =	<b>33</b>	P at 1 GHz =	<b>373</b>
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.172	0.053	834
0.40	0.247	0.075	590
0.60	0.306	0.093	482
0.80	0.356	0.109	417
1.00	0.401	0.122	373
1.20	0.442	0.135	341
1.40	0.481	0.146	315
1.60	0.517	0.157	295
1.80	0.551	0.168	278
2.00	0.584	0.178	264
4.00	0.858	0.262	186
6.00	1.082	0.330	152
8.00	1.279	0.390	132
10.00	1.459	0.445	118
20.00	2.227	0.679	83
30.00	2.881	0.878	68
33.00	3.065	0.934	65

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