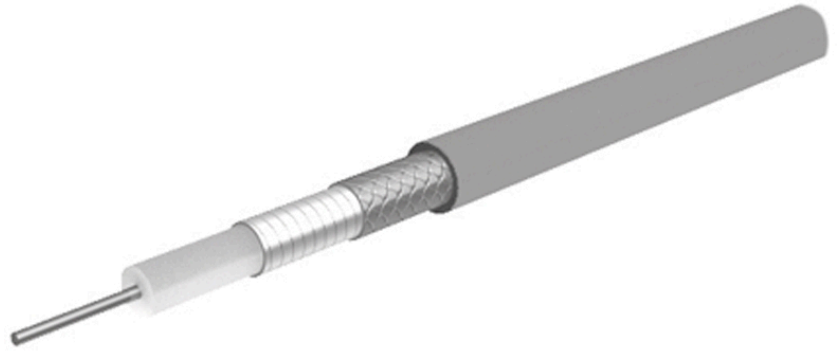


Flexible (RG405) 50 Ohm, 40 GHz, 165°C, ø2.65 mm, FEP jacket

MULTIFLEX_86

Properties

- Flexible alternative to semi-rigid cables
- Wide temperature range
- Suitable for use in applications up to 40 GHz



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.47 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.48 mm
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	1.71 mm
Outer conductor	Multi-end: Copper - Tinned	Braid, 99.4%	2.11 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 5015 - bl	2.65 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 40 GHz
Capacitance	95 pF/m
Velocity of signal propagation	70.6 %
Signal delay	4.72 ns/m
Screening effectiveness	≥ 90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.5 kVrms
Test voltage (50 Hz/1 min)	≤ 3.5 kVrms

Mechanical data	
Weight	approx. 21 g/m
Static bending radius	≥ 6 mm
Dynamic bending radius	≥ 20 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)

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Environmental data			
Fire characteristics		contains halogene	
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511965	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
Suitable connectors			
Cable group		Y11	
Ordering information			
Item number	Item description		Available as assembly only
22511965	MULTIFLEX_86		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 =	0.71702	b coefficient typical =	0.02892
fmax =	40	P at 1 GHz =	104
Frequency	Nom. attenuation	Nom. attenuation	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
0.20	0.326	0.100	233
0.40	0.465	0.142	164
0.60	0.573	0.175	134
0.80	0.664	0.203	116
1.00	0.746	0.227	104
1.20	0.820	0.250	95
1.40	0.889	0.271	88
1.60	0.953	0.291	82
1.80	1.014	0.309	78
2.00	1.072	0.327	74
4.00	1.550	0.472	52
6.00	1.930	0.588	42
8.00	2.259	0.689	37
10.00	2.557	0.779	33
20.00	3.785	1.154	23
30.00	4.795	1.461	19
40.00	5.692	1.735	16

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DOCUMENT PIM-P992 / Date of publication: 02.10.2026 / uncontrolled copy