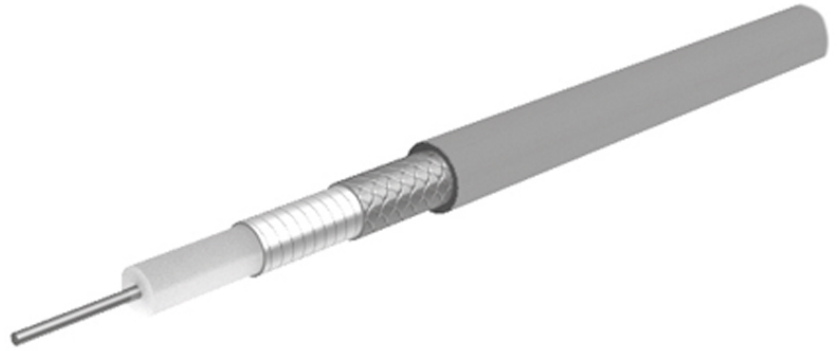


Flexible (RG405) 50 Ohm, 40 GHz, 165°C, Ø2.65 mm, FEP jacket

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-I)

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Environmental data			
Fire characteristics		contains halogene	
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 =		b coefficient typical =	0.02892
fmax =		P at 1 GHz =	140
Frequency		Nom. attenuation	Nom. attenuation
GHz		(dB/m)	(dB/ft)
		sea level 25°C ambient temperature	sea level 25°C ambient temperature
			sea level 40°C ambient temperature
0.20		0.326	0.100
0.40		0.465	0.142
0.60		0.573	0.175
0.80		0.664	0.203
1.00		0.746	0.227
1.20		0.820	0.250
1.40		0.889	0.271
1.60		0.953	0.291
1.80		1.014	0.309
2.00		1.072	0.327
4.00		1.550	0.472
6.00		1.930	0.588
8.00		2.259	0.689
10.00		2.557	0.779
20.00		3.785	1.154
30.00		4.795	1.461
40.00		5.692	1.735

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