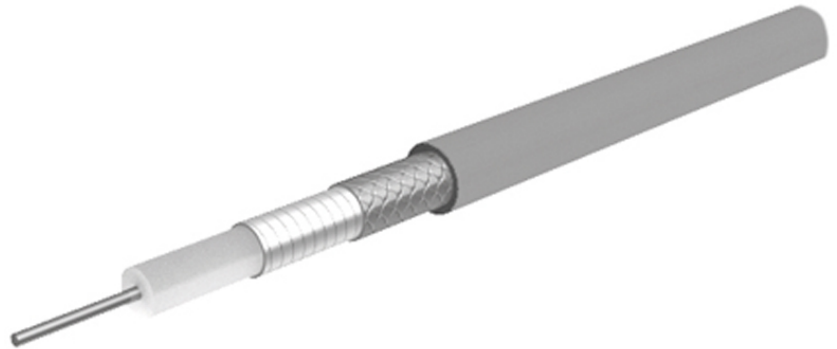


Field mountable, 50 Ohm, 18 GHz, 200°C, ø7.7 mm, FEP jacket

EACON_6C

Properties

- Field mountable microwave cable designed for assembly in tight spaces
- Excellent performance up to 18 GHz
- 2 piece solderless connectors for easy assembly and re-assembly in the field
- Waterproof IP67 rated



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	2.05 mm
Dielectric	PTFE-LD		6.2 mm
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	6.42 mm
Outer conductor	Copper, Silver plated	Braid	7.1 mm
Jacket	FEP (Fluorinated ethylene propylene)	White	7.7 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 18 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	≥90dB
Operating Voltage (at sea level)	≤ 3.8 kVrms

Mechanical data	
Weight	approx. 148 g/m
Static bending radius	≥ 24 mm
Dynamic bending radius	≥ 40 mm

Environmental data	
Operation temperature	-55 °C ... 200 °C
Flame propagation standard	FAR 25.869
Fire characteristics	contains halogene

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EACON_6C

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84116403	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	U96

Ordering information		
Item number	Item description	Available as assembly only
84116403	EACON_6C	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 =	0.15	b coefficient typical =	0.0071
fmax =	18	P at 1 GHz =	1582
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	0.069	0.021	3537
0.40	0.098	0.030	2501
0.60	0.120	0.037	2042
0.80	0.140	0.043	1769
1.00	0.157	0.048	1582
1.20	0.173	0.053	1444
1.40	0.187	0.057	1337
1.60	0.201	0.061	1251
1.80	0.214	0.065	1179
2.00	0.226	0.069	1119
4.00	0.328	0.100	791
6.00	0.410	0.125	646
8.00	0.481	0.147	559
10.00	0.545	0.166	500
18.00	0.764	0.233	373

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DOCUMENT PIM-P37269 / Date of publication: 24.10.2025 / uncontrolled copy