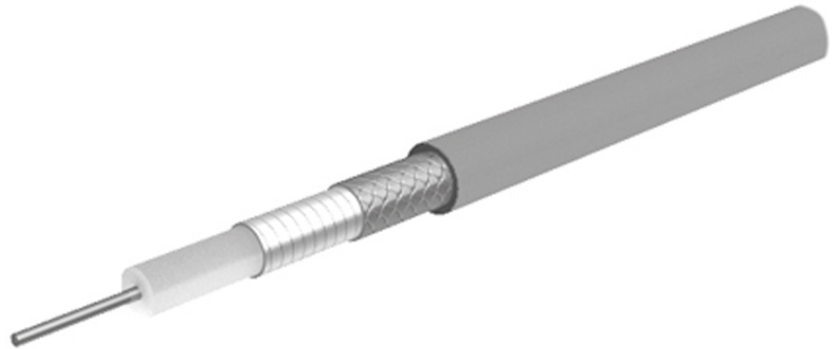


Field mountable, 50 Ohm, 18 GHz, 200°C, ø3.75 mm, FEP jacket

EACON_2C

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	0.81 mm
Dielectric	PTFE-LD		2.4 mm
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	2.65 mm
Outer conductor	Copper, Silver plated	Braid	3.35 mm
Jacket	FEP (Fluorinated ethylene propylene)	White	3.75 mm

Electrical data	
Impedance	50 Ω
Operating frequency	≤ 18 GHz
Capacitance	87 pF/m
Velocity of signal propagation	77 %
Signal delay	4.3 ns/m
Screening effectiveness	90 dB at frequency 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.4 kVrms

Mechanical data	
Weight	approx. 39 g/m
Static bending radius	≥ 12 mm
Dynamic bending radius	≥ 20 mm

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EACON_2C

Environmental data			
Operation temperature		-55 °C ... 200 °C	
Flame propagation standard		FAR 25.869	
Fire characteristics		contains halogene	
Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84116378	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		U92	
Ordering information			
Item number	Item description		Available as assembly only
84116378	EACON_2C		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 =	0.37	b coefficient typical =	0.0071
fmax =	18	P at 1 GHz =	394
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	0.167	0.051	881
0.40	0.237	0.072	623
0.60	0.291	0.089	509
0.80	0.337	0.103	441
1.00	0.377	0.115	394
1.20	0.414	0.126	360
1.40	0.448	0.136	333
1.60	0.479	0.146	311
1.80	0.509	0.155	294
2.00	0.537	0.164	279
4.00	0.768	0.234	197
6.00	0.949	0.289	161
8.00	1.103	0.336	139
10.00	1.241	0.378	125
18.00	1.698	0.517	93

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