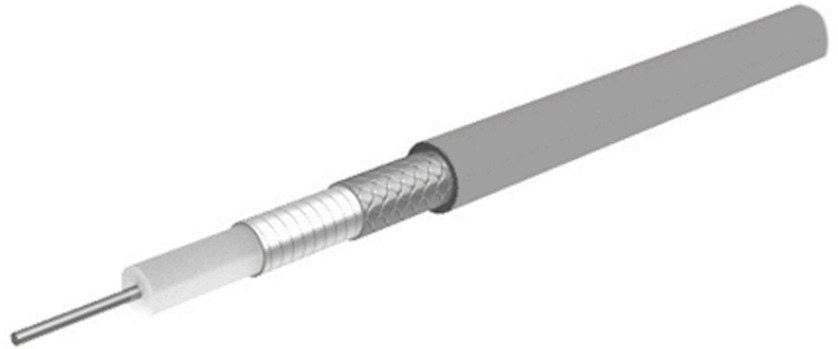


Field mountable, 50 Ohm, 18 GHz, 85°C, ø8.2 mm, LSFH jacket

Eacon_6CI-010

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	2.05 mm
Dielectric	PTFE-LD		6.05 mm
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	6.27 mm
Outer conductor		Braid	7 mm
Jacket	LSFH (modified polyethylene)	Black	8.2 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
Operating Voltage (at sea level)	≤ 3.8 kVrms

Mechanical data	
Weight	approx. 144 g/m
Static bending radius	≥ 24 mm
Dynamic bending radius	≥ 40 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Flame propagation standard	IEC 60332-1 UL 1581 § 1080 (VW-1)
Fire characteristics	contains halogene

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Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
84145046	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	U97

Ordering information		
Item number	Item description	Available as assembly only
84145046	Eacon_6CI-010	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 =	928
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	2075
0.40	0.098	0.030	1467
0.60	0.120	0.037	1198
0.80	0.140	0.043	1038
1.00	0.157	0.048	928
1.20	0.173	0.053	847
1.40	0.187	0.057	784
1.60	0.201	0.061	734
1.80	0.214	0.065	692
2.00	0.226	0.069	656
4.00	0.328	0.100	464
6.00	0.410	0.125	379
8.00	0.481	0.147	328
10.00	0.545	0.166	293
18.00	0.764	0.233	219

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