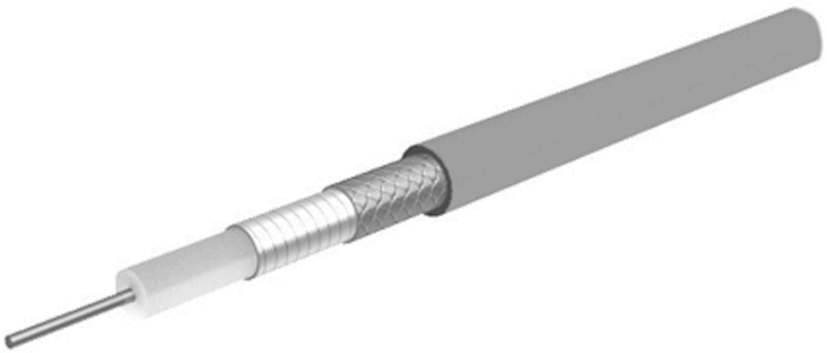
DATA SHEET

Field mountable, 50 Ohm, 18 GHz, 200°C, ø5.4 mm, FEP jacket

EACON_4C

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	1.4 mm
Dielectric	PTFE-LD		4.15 mm
Outer conductor	Copper, Silver plated	Wrapped foil, 100%	4.28 mm
Outer conductor	Copper, Silver plated	Braid	4.9 mm
Jacket	FEP (Fluorinated ethylene propylene)	White	5.7 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 1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 2.6 kVrms

Mechanical data	
Weight	approx. 73 g/m
Static bending radius	≥ 15 mm
Dynamic bending radius	≥ 25 mm

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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
84048293	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	U94

Ordering information		
Item number	Item description	Available as assembly only
84048293	EACON_4C	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 =	**0.2291**	b coefficient typical =	**0.0071**
fmax =	**18**	P at 1 GHz =	**907**
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	0.104	0.032	2028
0.40	0.148	0.045	1434
0.60	0.182	0.055	1171
0.80	0.211	0.064	1014
1.00	0.236	0.072	907
1.20	0.259	0.079	828
1.40	0.281	0.086	767
1.60	0.301	0.092	717
1.80	0.320	0.098	676
2.00	0.338	0.103	641
4.00	0.487	0.148	454
6.00	0.604	0.184	370
8.00	0.705	0.215	321
10.00	0.795	0.242	287
18.00	1.100	0.335	214

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