

RG400 LSFH type, 50 Ohm, 6 GHz, 85°C, ø5 mm, LSFH jacket

Enviroflex_B400

Properties

- Halogen free alternative to RG cables
- Low smoke
- Ozone, UV and weathering resistance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-19	1 mm
Dielectric	SPE (Foamed Polyethylene)		3 mm
Outer conductor	Copper, Tin plated	Braid	3.4 mm
Outer conductor	Copper, Tin plated		4 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	5 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/- 2Ω
Operating frequency	≤ 6 GHz
Capacitance	94.5 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	45 dB at frequency 1 GHz ... 6GHz
Insulation resistance	10000000 MΩ*m
Inner conductor resistance	31 Ω/km
Operating Voltage (at sea level)	≤ 2.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 43 g/m
Static bending radius	≥ 20 mm
Repeated bending radius	40 mm
Dynamic bending radius	< 40 mm

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Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Flame propagation standard	IEC 60332-1
Fire characteristics	free of halogenes
Cold bend test	MIL-C-17 § 4.8.19

Suitable connectors	
Cable group	U11

Ordering information		
Item number	Item description	Available as assembly only
85087104	ENVIROFLEX_B400	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.402	b coefficient typical =	0.142
fmax =	6	P at 1 GHz =	130
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.141	0.043	411
0.20	0.208	0.063	291
0.40	0.311	0.095	206
0.60	0.397	0.121	168
1.00	0.544	0.166	130
1.50	0.705	0.215	106
2.00	0.853	0.260	92
6.00	1.837	0.560	53

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