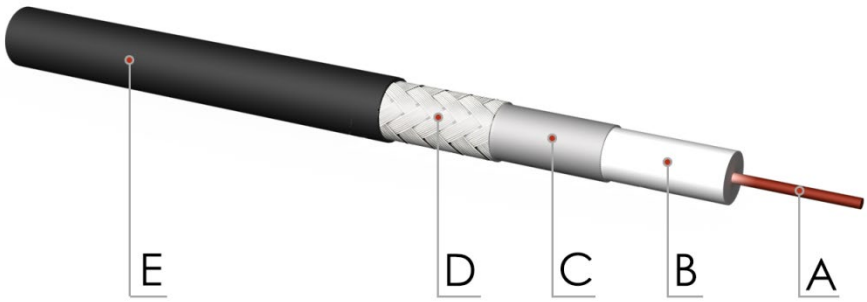
LLF400-PE

Flexible Low Loss Foam Coaxial Cable

DATASHEET



FEATURES:

- Low loss
- Flexible and lightweight
- High power handling
- Outdoor applications

RoHS COMPLIANT CE

Construction

	ITEM	MATERIAL	DIAMETER	REMARK
A	Center Conductor	(CCA) Copper Clad Aluminium	2.74 mm	Solid Core
B	Dielectric	Foam-PE	7.20 mm	Gas injected Polyethylene
C	Outer Conductor	Al/PET/Al + Surlyne	7.37 mm	100% Coverage (Foil)
D	Outer Conductor	(TC) Tinned Copper	7.97 mm	82% Coverage (Braid)
E	Jacket	(PE) Polyethylene	10.30 mm	Black

Electrical & Mechanical Data

Characteristic Impedance	50Ω (±2)
Operating Frequency	dc - 6 GHz
Velocity of Propagation	84%
Signal Delay	4 ns/m
Capacitance	79 pF/m
Operating Temperature	-40 / +80 °C (-40 / 176 °F)
Shield Effectiveness	> 90 dB
Working Voltage	2.5 kV_{RMS} (max.)
Sheath Insulation Voltage	8 kV_{RMS} (max.)
Weight	96.1 Kg/Km
Min. Bending Radius	50 mm (single), 100 mm (multiple)

Attenuation & Power Handling

Freq.	Typical Attenuation		Avg. max. Power
(MHz)	(dB/100m)	(dB/100ft)	(W)
10	1.40	0.43	5800
30	2.20	0.67	3348
50	2.80	0.85	2592
150	4.80	1.46	1450
220	5.90	1.80	1235
450	8.70	2.65	866
900	12.50	3.81	614
1000	13.20	4.02	579

Freq.	Typical Attenuation		Avg. max. Power
(MHz)	(dB/100m)	(dB/100ft)	(W)
1500	16.50	5.03	472
1800	18.00	5.49	433
2000	19.40	5.91	408
2500	22.30	6.80	367
3000	23.80	7.26	334
5200	33.30	10.15	251
5800	35.20	10.73	242
6000	35.80	10.91	238