

LMK-400-FR

Flexible flame retardant 50 Ohms low loss coaxial cable (LMR-400-FR equivalent)

Construction Specifications

Description	Material	Dimensions
Inner Conductor	Solid BCCAI	2.74 mm
Dielectric	Foam PE	7.24 mm
Outer Conductor	Aluminum Tape	7.39 mm
Overall Braid	Tinned Copper	8.13 mm
Jacket	Non-halogenated, fire retardant, PE black	10.29 mm

Electrical Specifications

Capacitance	77.1 pF/m
Impedance	50 ohms
Velocity of Propagation	85%
dc Resistance, Inner Conductor	2.92 ohms/km
dc Resistance, Outer Conductor	5.41 ohms/km
Shielding Effectiveness	> 90 dB
Insulation Resistance	>5000 Mohms/km

VSWR ≤ (Return loss ≥dB)

5-3000 MHz	1.20 (20)
800-1000 MHz	1.10 (26)
1700-2400 MHz	1.15 (23)

Mechanical Specifications

Bend Radius: installation	25,4 mm
Bend Radius: repeated	103 mm
Tensile Strength	73 kg

Environmental Specifications

Operating Temperature Range	-40/+85 °C
Installation Temperature Range	-40/+85 °C
Storage Temperature Range	-70/+85 °C



Attenuation and Avg. Power

Frequency MHz	30	50	150	220	450	900	1500	1800	2000	2500	3000	5800
Attenuation dB/100 m	2.2	2.9	5	6.1	8.9	12.8	16.8	18.6	19.6	22.2	24.8	35.5
Avg. Power kW	2.91	2.21	1.28	1.05	0.72	0.5	0.38	0.34	0.33	0.29	0.26	0.18