

LMR-400-FR, LMR 50 Ohm Braided Coaxial Cable, LSZH, jacket



Part No.	LMR- 400-FR
Product Classification	
Brand	LMR
Product Series	LMR-400-FR
Product Type	Braided coaxial cable
Construction Materials	
Jacket Color	White/Black
Jacket Material	Non-halogenated, fire retardant polyolefin
Braid Material	Tinned copper
Shield Tape Material	Aluminum
Dielectric Material	Foam PE
Inner Conductor Material	Copper-clad aluminum wire
Dimensions	
Cable Weight	0.126 kg/m
Diameter Over Dielectric	7.240 mm 0.285 in
Diameter Over Jacket	10.290 mm 0.405 in
Diameter Over Tape	7.391 mm 0.291 in
Inner Conductor OD	2.7400 mm 0.1079 in
Nominal Size	0.400 in
Outer Conductor OD	8.080 mm 0.318 in
Electrical Specifications	
Impedance	50
Relative Velocity of Propagation	85%
Capacitance	78 pF/m
Maximum Operating Frequency	16.2GHz
Peak Power Rating	16kW
DC Breakdown Voltage	3000V



Jacket Spark Test Voltage	8000 Vrms	
Inner Conductor DC-resistance	≤4.69Ω/km	
Outer Conductor DC-resistance	≤5.61Ω/km	
Shielding Attenuation	≥90dB	
Environmental Specifications		
Installation Temperature	-40°C to +85°C	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Mechanical Specifications		
Bending Moment	0.7 N-m 0.5 ft lb	
Flat Plate Crush Strength	0.7 kg/mm 40.0 lb/in	
Minimum Bend Radius, Single Bend	25.40 mm 1.00 in	
Tensile Strength	73 kg 160 lb	
General Specifications		
Cable Type	LMR-400-FR	
Braid Coverage	90 %	
Attenuation		
Frequency (MHz)	Attenuation (dB/100m)	Attenuation (dB/100 ft)
30	2.49	0.76
50	3.18	0.97
150	4.92	1.50
220	6.23	1.90
450	8.86	2.70
900	12.80	3.90
1500	16.70	5.10
1800	18.40	5.60
2000	19.40	5.90
2400	21.65	6.60
2500	22.00	6.70
3000	24.60	7.50
4000	28.87	8.80
4500	30.84	9.40
5000	32.81	10.00



5200	33.46	10.20
5500	34.78	10.60
5800	35.76	10.90
6000	36.42	11.10

Regulatory compliance/Certifications.

Agency	Classification
RoHs 2011/65/EU	Compliance
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Below Maximum Concentration Value (MCV)
Fire resistance	EN50575 CPR Euro Class