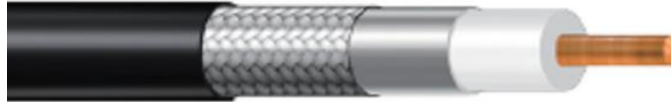


PRODUCT SPECIFICATION

LMR 100-600 Series

HQ-400 FR

Data sheet



Structure specification

description	material	inches	mm
Inner conductor	Solid BC or CCA	0.108	2.74
dielectric	Foam PE	0.285	7.24
Outer conductor	Aluminum tape	0.291	7.39
Overall braid	Tinned CU or tinned CCA or as per request	0.32	8.13
Jacket	LSZH JACKET	0.405	10.29

Mechanical performance

Performance property	units	US	metric
Bend Radius: installation	In.(mm)	1.0	(25.4)
Bend Radius: repeated	In.(mm)	4.0	(101.6)
Weight	lb/ft (kg/m)	0.088	(0.131)
Tensile Strength	lb (kg)	160	(72.5)

Environmental specifications

Performance property	0F	oC
Installation temperature range	-40/+185	-40/+85
Storage temperature range	-94/+185	-70/+85
Operating temperature range	-40/+185	-40/+85

Electrical performance

Performance property	units	US	(metric)
Velocity of propagation	%	85	
Inductance	uH/ft (uH/m)	0.060	(0.20)
impedance	ohms	50	
capacitance	pF/ft(pF/m)	23.9	78.4
Inner conductor resistance	Ohms/1000ft(/km)	1.38	(4.6)
Outer conductor resistance	Ohms/1000ft(/km)	1.65	(5.4)
Voltage withstand	Volts DC		2500
Jacket Spark	Volts RMS		8000
Peak Power	KW		16

Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000	2500	5800
Attenuation dB/100ft	0.7	0.9	1.5	1.9	2.7	3.8	5.1	5.7	6.0	6.7	10.7
Attenuation dB/100m	2.3	2.9	5.0	6.1	8.9	12.7	16.9	18.6	19.6	22.3	35.6