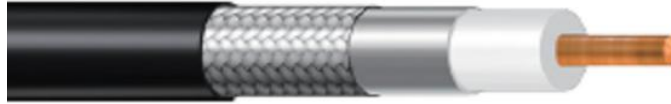


PRODUCT SPECIFICATION

LMR 100-600 Series

HQ-500

Data sheet



Structure specification

description	material	inches	mm
Inner conductor	Solid BC or CCA	0.142	3.61
dielectric	Foam PE	0.37	9.4
Outer conductor	Aluminum tape	0.376	9.55
Overall braid	Tinned CU or tinned CCA or as per request	0.405	10.29
Jacket	PVC or PE	0.500	12.70

Mechanical performance

Performance property	units	US	metric
Bend radius	In.(mm)	5	127.0
Tensile strength	Lb(kg)	260	118.0

Environmental specifications

Performance property	oF	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	%	86	
impedance	ohms	50	
capacitance	pF/ft(pF/m)	23.6	77.5
Inner conductor resistance	Ohms/1000ft(/km)	0.82	2.70
Outer conductor resistance	Ohms/1000ft(/km)	1.27	4.20
Voltage withstand	Volts DC		3000

Frequency (MHz)	30	50	150	220	450	900	1500	1800	2000
Attenuation dB/100ft	0.5	0.7	1.2	1.5	2.2	3.1	4.1	4.6	4.8
Attenuation dB/100m	1.8	2.3	4.0	4.9	7.1	10.3	13.6	15.0	15.9