



LOW-240FR 50 Ohm Coax Cable

CONSTRUCTION

Inner Conductor
Insulation
Outer Conductor
Jacket



PROPERTIES

Min. Bending Radius: 19.1 mm
Max. Pulling Tension 372 N
Crush resistance of cable (load of 700N) < 1 %
Admissible Ambient Temperature -40~+85

PHYSICAL SPECIFICATIONS

Center Conductor	Solid Bare Copper
Conductor Dia.(+/-0.02mm)	1.42
Min. Break Strength (N)	728
Insulation	Foamed Polyethylene
Insulation Dia.(+/-0.10mm)	3.81
Color	Neutral
Centricity (%)	90
Adhesion	10 to 100N @ 25mm
1st Outer Conductor	Bonded Aluminum Foil
Overlapping	115%
Dia.(+/-0.10mm)	3.94
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.(+/-0.01mm)	0.12
No. of Wires	144
Coverage (+/-3%)	90
Outer Jacket	LSZH-FRPE
Outer Dia (+/-0.10mm)	6.10
TPE Compound:	DW9023B-2C (IEC60332-3)
Smoke Index Test Method	IEC 61034-2
Toxicity Index Test Method	IEC 60754-2
Operating Temperature	-40 deg to +85 deg C

ELECTRICAL SPECIFICATIONS

Characteristic Impedance	50 +3ohm
Capacitance	79 ±3pF/m
Velocity Ratio	> 84 %
DC Resistance: Centre Conductor	< 10.50 ohm/km
DC Resistance: Outer Conductor	< 12.76 ohm/km
Peak Power rating	5.60 Kw
Cut Off Frequency	31.00 GHz
Insulation Resistance	> 5,000 -km
Dielectric Strength	1600 VCA
Voltage Withstand	1500 VDC
Screening Factor at 1 - 1000MHz	> 90 dB
Frequency	Attenuation (at 20 m)
30 MHz	1.34 dB/100Ft
50 MHz	1.74 dB/100Ft
100 MHz	2.50 dB/100Ft
150 MHz	3.02 dB/100Ft
220 MHz	3.66 dB/100Ft
450 MHz	5.27 dB/100Ft
900 MHz	7.56 dB/100Ft
1500 MHz	9.88 dB/100Ft
1800 MHz	10.85 dB/100Ft
2000 MHz	11.49 dB/100Ft
2500 MHz	12.92 dB/100Ft
3000 MHz	14.36 dB/100Ft
5800 MHz	20.4 dB/100Ft