LOW-600FR 50 Ohm Coax Cable

CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Jacket

PROPERTIES

Min. Bending Radius:	38.1 mm
Max. Pulling Tension	1750 N
Crush resistance of cable (load of 700N)	< 1 %
Admissible Ambient Temperature	-40~+85 ℃

PHYSICAL SPECIFICATIONS

Center Conductor	Solid CCA
Conductor Dia.(+/-0.03mm)	4.47
Min. Break Strength (N)	1700
Insulation	Foamed Polyethylene
Insulation Dia.(+/-0.20mm)	11.56
Color	Neutral
Centricity (%)	⩾ 85
Adhesion	10 to 100N @ 25mm
1st Outer Conductor	Bonded Aluminum Foil
Overlapping	⩾ 115%
Dia.(+/-0.10mm)	11.71
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.(+/-0.01mm)	0.18
No. of Wires	240
Coverage (+/-3%)	95
Outer Jacket	LSZH (meets CMR,FT4 rating)
Outer Dia (+/-0.10mm)	14.99
Tensile strength	⩾ 16.2 N/mm ^{2}
Elongation at break	⩾ 700 %
Adhesion	20 to 80N @ 50mm
TPE Compound:	DW9023B-2C (IEC60332-3)
Smoke Index Test Method	IEC 61034-2
Toxicity Index Test Method	IEC 60754-2

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50 +-3ohm
Capacitance	77 ±3pF/m
Velocity Ratio	> 87 %
DC Resistance: Centre Conductor	< 4.60 ohm/km
DC Resistance: Outer Conductor	< 5.40 ohm/km
Peak Power rating	40.00 Kw
Cut Off Frequency	10.30 GHz
Insulation Resistance	> 5,000 MΩ·km
Dielectric Strength	1600 VAC
Voltage Withstand	4000 VDC
Screening Factor at 1 - 1000MHz	> 90 dB

Frequency		Attenuation	(at 20 ℃)
30	MHz	0.43	dB/100Ft
50	MHz	0.55	dB/100Ft
100	MHz	0.85	dB/100Ft
150	MHz	0.98	dB/100Ft
220	MHz	1.19	dB/100Ft
450	MHz	1.71	dB/100Ft
900	MHz	2.50	dB/100Ft
1500	MHz	3.32	dB/100Ft
1800	MHz	3.69	dB/100Ft
00	MHz	3.90	dB/100Ft
2500	MHz	4.42	dB/100Ft
3000	MHz	5.06	dB/100Ft
3800	MHz	7.3	dB/100Ft