



LOW-400-DB 50 Ohm Coaxial Cable

CONSTRUCTION

Inner Conductor
Insulation
Outer Conductor
Gel-Filled
Jacket



PHYSICAL SPECIFICATIONS

Center Conductor	Solid CCA
Conductor Dia.(+/-0.02mm)	2.74
Min. Break Strength (N)	640
Insulation	Foamed Polyethylene
Insulation Dia.(+/-0.10mm)	7.24
Color	Neutral
Centricity (%)	≥ 90
Adhesion	10 to 100N @ 25mm
1st Outer Conductor	Bonded Aluminum Foil
Overlapping	≥ 115%
Dia.(+/-0.10mm)	7.39
2nd Outer Conductor	Tinned Copper Braid
Conductor Dia.(+/-0.01mm)	0.15
No. of Wires	192
Coverage (+/-3%)	95
Flooding	Gel-Filled
Outer Jacket	PE
Outer Dia (+/-0.10mm)	10.29
Tensile strength	≥ 13.5 N/mm ²
Elongation at break	≥ 300 %
Adhesion	20 to 80N @ 50mm

PROPERTIES

Min. Bending Radius:	25.4 mm
Max. Pulling Tension	740 N
Crush resistance of cable (load of 700)	< 1 %
Admissible Ambient Temperature	-40~+85 °C

ELECTRICAL CHARACTERISTICS

Characteristic Impedance	50 +/-3ohm
Capacitance	78 ±3pF/m
Velocity Ratio	> 85 %
DC Resistance: Centre Conductor	< 4.60 ohm/km
DC Resistance: Outer Conductor	< 5.40 ohm/km
Peak Power rating	16.00 Kw Cut
Off Frequency	16.20 GHz
Insulation Resistance	> 5,000 MΩ·km
Dielectric Strength	1600 VAC
Voltage Withstand	2500 VDC
Screening Factor at 1 - 1000MHz	> 90 dB

Frequency	Attenuation (at 20 °C)	
30 MHz	0.67	dB/100Ft
50 MHz	0.88	dB/100Ft
100 MHz	1.31	dB/100Ft
150 MHz	1.52	dB/100Ft
220 MHz	1.86	dB/100Ft
450 MHz	2.71	dB/100Ft
900 MHz	3.90	dB/100Ft
1500 MHz	5.12	dB/100Ft
1800 MHz	5.67	dB/100Ft
2000 MHz	5.97	dB/100Ft
2500 MHz	6.77	dB/100Ft
3000 MHz	7.62	dB/100Ft
5800 MHz	10.8	dB/100Ft