

RFC-400-DB 50 Ohms Coaxial Cable



CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

Gel-Filled

Jacket



PROPERTIES

Min. Bending Radius: 25.4 mm

Max. Pulling Tension 740 N

Crush resistance of cable (load of 700N) < 1 %

Admissible Ambient Temperature -40~+85 °C

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

Printing

Shireen RFC © 400-DB Low Loss 50 ohms Cable ww/yy
+ footage marking

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