

RFC-400-FR 50 Ohms Coaxial Cable



CONSTRUCTION

Inner Conductor

Insulation

Outer Conductor

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

Outer Jacket LSZH-FRPE
 Outer Dia (+/-0.10mm) 10.29
 Tensile strength ≥ 16.2 N/mm²
 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

Printing

Shireen RFC® 400-FRLow 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