# Product Specifications





# 4102003/10 | 2045V WHRL RG59 90

RG 59 Type 95% Braid Plenum Coaxial Cable, white jacket 1000 ft (305 m) reel

#### Construction Materials

Construction Type Non-armored

Center Conductor Material Copper-clad steel wire

Dielectric Material Foam FEP
Jacket Material PVC
Shield (Braid) Coverage 90 %
Shield (Braid) Gauge 34 AWG
Shield (Braid) Material Aluminum

Shield (Tape) Material Aluminum/Poly, bonded

#### **Dimensions**

Cable Length 305 m | 1000 ft Cable Weight 32.00 lb/kft

Diameter Over Center Conductor 0.8128 mm per 1 strand

0.0320 in per 1 strand

Diameter Over Dielectric 3.4290 mm | 0.1350 in Diameter Over Jacket 5.131 mm | 0.202 in

Diameter Over Jacket Tolerance ±0.007 in

Diameter Over Shield (Braid) 4.318 mm | 0.170 in Jacket Thickness 0.406 mm | 0.016 in Jacket Thickness, minimum spot 0.305 mm | 0.012 in

### **Electrical Specifications**

Capacitance 52.5 pF/m | 16.0 pF/ft

Characteristic Impedance 75 ohm
Characteristic Impedance Tolerance ±3 ohm

Conductor dc Resistance 48.20 ohms/kft

Dielectric Strength, conductor to shield 2500 Vdc
Jacket Spark Test Voltage 2500 Vac
Nominal Velocity of Propagation (NVP) 84 %

Shield dc Resistance 3.20 ohms/kft

Structural Return Loss 20 dB @ 10-300 MHz Structural Return Loss Test Method 100% Swept Tested

### **Environmental Specifications**

Environmental Space Plenum Flame Test Method CMP

Operating Temperature -40 °C to +75 °C (-40 °F to +167 °F)

Safety Standard CETL | ETL

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UL Temperature Rating 60 °C | 140 °F

### General Specifications

Cable Type Series 59
Jacket Color White
Product Number 2045V
Center Conductor Gauge 20 AWG
Center Conductor Type Solid
Packaging Type Reel

### Mechanical Specifications

Minimum Bend Radius, loaded 20 times
Minimum Bend Radius, unloaded 10 times

## **Electrical Performance**

Frequency	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	
1 MHz	1.84	0.56	
10 MHz	2.82	0.86	
50 MHz	6.26	1.91	
100 MHz	9.12	2.78	
200 MHz	13.32	4.06	
400 MHz	19.71	6.01	
700 MHz	27.78	8.47	
900 MHz	32.21	9.82	
1000 MHz	34.34	10.47	

# Regulatory Compliance/Certifications

**Agency**RoHS 2002/95/EC

Classification
Compliant

ISO 9001:2008 Designed, manufactured and/or distributed under this quality management system

