RG 6 Type 90% Braid Plenum Video Coaxial Cable, white jacket, 1000 ft (305 m) reel

Product Classification

Regional Availability
- Asia
- Australia/New Zealand
- EMEA
- Latin America
- North America

Portfolio
- CommScope®

Product Type
- Coaxial video cable

General Specifications

Product Number
- 2276V

Cable Type
- Series 6

Center Conductor Type
- Solid

Construction Type
- Non-armored

Jacket Color
- White

Dimensions

Cable Length
- 304.8 m | 1000 ft

Diameter Over Center Conductor Tolerance
- ±0.0004 in

Diameter Over Center Conductor, specific
- 0.0403 in per 1 strand

Diameter Over Dielectric
- 4.318 mm | 0.17 in

Diameter Over Jacket Tolerance
- ±0.006 in

Diameter Over Jacket, nominal
- 6.02 mm | 0.237 in

Diameter Over Shield (Braid)
- 5.207 mm | 0.205 in

Jacket Thickness
- 0.381 mm | 0.015 in

Jacket Thickness, minimum spot
- 0.254 mm | 0.01 in

Center Conductor Gauge
- 18 AWG

Shield (Braid) Gauge
- 34 AWG

Electrical Specifications

Capacitance
- 50.853 pF/m | 15.5 pF/ft

Characteristic Impedance
- 75 ohm

Characteristic Impedance Tolerance
- ±3 ohm

Conductor dc Resistance
- 93.832 ohms/km | 28.6 ohms/kft
Dielectric Strength, conductor to shield 2500 Vdc
Jacket Spark Test Voltage 2500 Vac
Nominal Velocity of Propagation (NVP) 84 %
Shield dc Resistance 20.997 ohms/km | 6.4 ohms/kft
Structural Return Loss 15 dB @ 1000–3000 MHz | 20 dB @ 5–1000 MHz
Structural Return Loss Test Method 100% Swept Tested

Attenuation

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
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Material Specifications

Center Conductor Material Copper-clad steel wire
Dielectric Material Foam FEP
Jacket Material PVC
Shield (Braid) Coverage 90 %
Shield (Braid) Material Aluminum
Shield (Tape) Material Aluminum/Poly, bonded

Mechanical Specifications

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

Environmental Specifications

- **Operating Temperature**: -40 °C to +75 °C (-40 °F to +167 °F)
- **Environmental Space**: Plenum
- **Temperature Rating, UL**: 75 °C | 167 °F
- **Flame Test Method**: CMP
- **Safety Standard**: ETL | cETL

Packaging and Weights

- **Cable weight**: 41.669 kg/km | 28 lb/kft
- **Packaging Type**: Reel

Regulatory Compliance/Certifications

- **Agency** | **Classification**
  - CHINA-ROHS | Below maximum concentration value
  - ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system
  - REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance
  - ROHS | Compliant