RG 6 Type 90% Braid Plenum Video Coaxial Cable, black 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
Black

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
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

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<th>Classification</th>
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<td>Designed, manufactured and/or distributed under this quality management system</td>
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