RG 6 Type Quad Shield 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
2227V

Cable Type
Series 6

Center Conductor Type
Solid

Construction Type
Non-armored

Jacket Color
White

Supported Application
Video

Dimensions

Cable Length
304.8 m | 1000 ft

Diameter Over Center Conductor, specific
0.0403 in per strand

Diameter Over Dielectric
4.318 mm | 0.17 in

Diameter Over Inner Shield (Braid)
5.131 mm | 0.202 in

Diameter Over Jacket Tolerance
±0.006 in

Diameter Over Jacket, nominal
6.604 mm | 0.26 in

Diameter Over Outer Shield (Braid)
5.74 mm | 0.226 in

Jacket Thickness
0.406 mm | 0.016 in

Jacket Thickness, minimum spot
0.33 mm | 0.013 in

Center Conductor Gauge
18 AWG

Inner Shield (Braid) Gauge
34 AWG

Outer 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
2000 Vdc

## Jacket Spark Test Voltage
2500 Vac

## Nominal Velocity of Propagation (NVP)
84 %

## Shield dc Resistance
17.388 ohms/km | 5.3 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 ft)</th>
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<tbody>
<tr>
<td>1.0</td>
<td>0.38</td>
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<tr>
<td>10.0</td>
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</tr>
<tr>
<td>50.0</td>
<td>1.48</td>
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<tr>
<td>100.0</td>
<td>2.01</td>
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<td>400.0</td>
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<td>900.0</td>
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<td>1800.0</td>
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<td>2200.0</td>
<td>11.54</td>
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<tr>
<td>2500.0</td>
<td>11.7</td>
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<tr>
<td>3000.0</td>
<td>13.07</td>
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## Material Specifications

**Center Conductor Material**
Copper-clad steel wire

**Dielectric Material**
Foam FEP

**Jacket Material**
PVC

**Inner Shield (Braid) Coverage**
60 %

**Inner Shield (Braid) Material**
Aluminum

**Inner Shield (Tape) Material**
Aluminum/Poly

**Outer Shield (Braid) Coverage**
40 %
| **Outer Shield (Braid) Material** | Aluminum |
| **Outer Shield (Tape) Material** | Aluminum/Poly, non-bonded |

**Mechanical Specifications**

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

**Environmental Specifications**

| **Environmental Space** | Plenum |
| **Temperature Rating, UL** | 75 °C | 167 °F |
| **Flame Test Method** | CMP |
| **Safety Standard** | ETL | cETL |

**Packaging and Weights**

| **Cable weight** | 43.157 kg/km | 29 lb/kft |
| **Packaging Type** | Reel |

**Regulatory Compliance/Certifications**

<table>
<thead>
<tr>
<th><strong>Agency</strong></th>
<th><strong>Classification</strong></th>
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<tbody>
<tr>
<td>CHINA-ROHS</td>
<td>Below maximum concentration value</td>
</tr>
<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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<tr>
<td>REACH-SVHC</td>
<td>Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a></td>
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