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**
2227K

**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 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 Inner Shield (Braid)**
5.131 mm | 0.202 in

**Diameter Over Jacket Tolerance**
±0.004 in

**Diameter Over Jacket, nominal**
6.604 mm | 0.26 in

**Diameter Over Outer Shield (Braid)**
5.893 mm | 0.232 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: 2500 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 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>1.25</td>
<td>0.38</td>
</tr>
<tr>
<td>10.0</td>
<td>2.3</td>
<td>0.7</td>
</tr>
<tr>
<td>50.0</td>
<td>4.85</td>
<td>1.48</td>
</tr>
<tr>
<td>100.0</td>
<td>6.59</td>
<td>2.01</td>
</tr>
<tr>
<td>200.0</td>
<td>9.38</td>
<td>2.86</td>
</tr>
<tr>
<td>400.0</td>
<td>13.87</td>
<td>4.23</td>
</tr>
<tr>
<td>700.0</td>
<td>19.55</td>
<td>5.96</td>
</tr>
<tr>
<td>900.0</td>
<td>22.83</td>
<td>6.96</td>
</tr>
<tr>
<td>1000.0</td>
<td>24.44</td>
<td>7.45</td>
</tr>
<tr>
<td>1200.0</td>
<td>27.06</td>
<td>8.25</td>
</tr>
<tr>
<td>1450.0</td>
<td>30.64</td>
<td>9.34</td>
</tr>
<tr>
<td>1800.0</td>
<td>35.06</td>
<td>10.69</td>
</tr>
<tr>
<td>2200.0</td>
<td>37.85</td>
<td>11.54</td>
</tr>
<tr>
<td>2500.0</td>
<td>38.38</td>
<td>11.7</td>
</tr>
<tr>
<td>3000.0</td>
<td>42.87</td>
<td>13.07</td>
</tr>
</tbody>
</table>

Material Specifications

Center Conductor Material: Copper-clad steel wire
Dielectric Material: Foam FEP
Jacket Material: PVDF
Inner Shield (Braid) Coverage: 60 %
Inner Shield (Braid) Material: Aluminum
Inner 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 +125 °C (-40 °F to +257 °F)
- ** Environmental Space**: Plenum
- **Temperature Rating, UL**: 125 °C | 257 °F
- **Flame Test Method**: CMP
- **Safety Standard**: ETL | cETL

### Packaging and Weights
- **Cable weight**: 44.645 kg/km | 30 lb/kft
- **Packaging Type**: Reel

### Regulatory Compliance/Certifications
<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<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>
</tr>
<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>
</tr>
<tr>
<td>ROHS</td>
<td>Compliant</td>
</tr>
</tbody>
</table>