RG 6 Type Quad Shield Non-Plenum Satellite Coaxial Cable CMR, black jacket, 1000 ft (305 m) reel

Product Classification

**Portfolio**
CommScope®

**Product Type**
Coaxial satellite cable

**Regional Availability**
Asia | Australia/New Zealand | EMEA | Latin America | North America

Construction Materials

**Construction Type**
Non- armored

**Center Conductor Material**
Bare copper

**Dielectric Material**
Foam PE

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

**Inner Shield (Braid) Gauge**
34 AWG

**Inner Shield (Braid) Material**
Aluminum

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

**Outer Shield (Braid) Coverage**
40 %

**Outer Shield (Braid) Gauge**
34 AWG

**Outer Shield (Braid) Material**
Aluminum

**Outer Shield (Tape) Material**
Aluminum/Poly, non-bonded

**Jacket Material**
PVC

Dimensions

**Cable Length**
305 m | 1000 ft

**Cable Weight**
34.00 lb/kft

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

**Diameter Over Dielectric**
4.5720 mm | 0.1800 in

**Diameter Over Dielectric Tolerance**
±0.004 in

**Diameter Over Jacket Tolerance**
±0.008 in

**Diameter Over Jacket, nominal**
7.620 mm | 0.300 in

**Diameter Over Inner Shield (Braid)**
5.385 mm | 0.212 in

**Diameter Over Outer Shield (Braid)**
5.893 mm | 0.232 in

Electrical Specifications

**Capacitance**
52.5 pF/m | 16.0 pF/ft

**Characteristic Impedance**
75 ohm

**Characteristic Impedance Tolerance**
±3 ohm

**Conductor dc Resistance**
6.50 ohms/kft

**Dielectric Strength, conductor to shield**
2500 Vdc
Jacket Spark Test Voltage: 2500 Vac
Nominal Velocity of Propagation (NVP): 84%
Shield dc Resistance: 4.90 ohms/kft
Structural Return Loss: 15 dB @ 1000–3000 MHz | 20 dB @ 5–1000 MHz
Structural Return Loss Test Method: 100% Swept Tested

Environmental Specifications
Environmental Space: Non-plenum
Flame Test Method: CMR
Operating Temperature: -40 °C to +75 °C (-40 °F to +167 °F)
Safety Standard: cETL | ETL
UL Temperature Rating: 75 °C | 167 °F

General Specifications
Cable Type: Series 6
Jacket Color: Black
Product Number: 5781R
Center Conductor Gauge: 18 AWG
Center Conductor Type: Solid
Packaging Type: Reel

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

Electrical Performance
<table>
<thead>
<tr>
<th>Frequency</th>
<th>Attenuation (dB/100 m)</th>
<th>Attenuation (dB/100 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MHz</td>
<td>0.82</td>
<td>0.25</td>
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<tr>
<td>10 MHz</td>
<td>2.16</td>
<td>0.66</td>
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<tr>
<td>50 MHz</td>
<td>4.62</td>
<td>1.41</td>
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<tr>
<td>100 MHz</td>
<td>6.30</td>
<td>1.92</td>
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<tr>
<td>200 MHz</td>
<td>8.66</td>
<td>2.64</td>
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<td>400 MHz</td>
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<td>3.73</td>
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<tr>
<td>700 MHz</td>
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<td>900 MHz</td>
<td>18.99</td>
<td>5.79</td>
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<tr>
<td>1000 MHz</td>
<td>20.04</td>
<td>6.11</td>
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<tr>
<td>1200 MHz</td>
<td>22.07</td>
<td>6.73</td>
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<tr>
<td>1450 MHz</td>
<td>24.57</td>
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<tr>
<td>1800 MHz</td>
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<td>8.43</td>
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<tr>
<td>2200 MHz</td>
<td>30.67</td>
<td>9.35</td>
</tr>
<tr>
<td>2500 MHz</td>
<td>32.70</td>
<td>9.97</td>
</tr>
<tr>
<td>3000 MHz</td>
<td>35.82</td>
<td>10.92</td>
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## Regulatory Compliance/Certifications

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
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<tr>
<td>RoHS 2011/65/EU</td>
<td>Compliant</td>
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<tr>
<td>ISO 9001:2015</td>
<td>Designed, manufactured and/or distributed under this quality management system</td>
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