Siamese RG 6 Type Quad Shield w/ Category 6 Twisted Pair Non-Plenum Cable, blue jacket, 1000 ft (305 m) reel

Product Classification

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

Portfolio
CommScope®

Product Type
Hybrid cable, coax and twisted pair

Product Brand
UltraHome®

General Specifications

Product Number
UH68120

ANSI/TIA Category
6

Cable Type
Hybrid

Center Conductor Type
Solid

Construction Type
Non-armored

Jacket Color
Blue

Dimensions

Overall Cable Width
14.529 mm | 0.572 in

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 Conductor, singles, specific
0.0254 in per 1 strand

Diameter Over Dielectric
4.572 mm | 0.18 in

Diameter Over Dielectric Tolerance
±0.004 in

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

Center Conductor Gauge
18 AWG

Inner Shield (Braid) Gauge
34 AWG

Outer Shield (Braid) Gauge
34 AWG

Dimensions, Coaxial

Jacket Thickness
0.813 mm | 0.032 in
Jacket Thickness, minimum spot | 0.61 mm | 0.024 in
Diameter Over Jacket | 7.544 mm | 0.297 in
Diameter Over Jacket Tolerance | ±0.008 in

Electrical Specifications

Capacitance | 52.493 pF/m | 16 pF/ft
Characteristic Impedance | 75 ohm
Characteristic Impedance Tolerance | ±3 ohm
Conductor dc Resistance | 21.325 ohms/km | 6.5 ohms/kft
Dielectric Strength, conductor to shield | 2500 Vdc
Jacket Spark Test Voltage | 4000 Vac
Nominal Velocity of Propagation (NVP) | 82 %
Shield dc Resistance | 16.076 ohms/km | 4.9 ohms/kft
Structural Return Loss | 15 dB @ 5–2200 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>1.21</td>
<td>0.37</td>
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<tr>
<td>10.0</td>
<td>2.16</td>
<td>0.66</td>
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<tr>
<td>50.0</td>
<td>4.62</td>
<td>1.41</td>
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<tr>
<td>100.0</td>
<td>6.3</td>
<td>1.92</td>
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<tr>
<td>200.0</td>
<td>8.66</td>
<td>2.64</td>
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<tr>
<td>400.0</td>
<td>12.23</td>
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<td>700.0</td>
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<td>9.35</td>
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<td>3000.0</td>
<td>35.82</td>
<td>10.92</td>
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</table>

Material Specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Conductor Material</td>
<td>Bare copper</td>
</tr>
<tr>
<td>Conductor Material</td>
<td>Bare copper</td>
</tr>
<tr>
<td>Dielectric Material</td>
<td>Foam PE</td>
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<tr>
<td>Jacket Material</td>
<td>PVC</td>
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<tr>
<td>Inner Shield (Braid) Coverage</td>
<td>60 %</td>
</tr>
<tr>
<td>Inner Shield (Braid) Material</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Inner Shield (Tape) Material</td>
<td>Aluminum/Poly, bonded</td>
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<tr>
<td>Outer Shield (Braid) Coverage</td>
<td>40 %</td>
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<tr>
<td>Outer Shield (Braid) Material</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Outer Shield (Tape) Material</td>
<td>Aluminum/Poly, non-bonded</td>
</tr>
<tr>
<td>Ripcord Material</td>
<td>Polypropylene</td>
</tr>
</tbody>
</table>

**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**: Non-plenum
- **Temperature Rating, UL**: 60 °C | 140 °F
- **Flame Test Method**: CM
- **Safety Standard**: ETL | cETL

**Packaging and Weights**

- **Cable weight**: 89.29 kg/km | 60 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 |
  - UK-ROHS | Compliant |
* Footnotes

**Operating Temperature**  Specification applicable to non-terminated bulk fiber cable