



8720203/10 | 2281 WHRL RG6 TRI 1000

**RG 6 Type 77% Braid Trishield Plenum Video Coaxial Cable, white jacket, 1000 ft (305 m) reel**

## Construction Materials

|                               |                           |
|-------------------------------|---------------------------|
| Construction Type             | Non-armored               |
| Center Conductor Material     | Copper-clad steel wire    |
| Dielectric Material           | Foam FEP                  |
| Inner Shield (Braid) Coverage | 77 %                      |
| Inner Shield (Braid) Gauge    | 34 AWG                    |
| Inner Shield (Braid) Material | Aluminum                  |
| Inner Shield (Tape) Material  | Aluminum/Poly, bonded     |
| Jacket Material               | PVC                       |
| Outer Shield (Tape) Material  | Aluminum/Poly, non-bonded |

## Dimensions

|  |  |
|--|--|
| Cable Length                             | 305 m   1000 ft                                  |
| Cable Weight                             | 28.00 lb/kft                                     |
| Diameter Over Center Conductor           | 1.0236 mm per 1 strand<br>0.0403 in per 1 strand |
| Diameter Over Center Conductor Tolerance | ±0.0004 in                                       |
| Diameter Over Dielectric                 | 4.3180 mm   0.1700 in                            |
| Diameter Over Jacket                     | 6.299 mm   0.248 in                              |
| Diameter Over Jacket Tolerance           | ±0.006 in  |
| Diameter Over Shield (Braid)             | 5.207 mm   0.205 in                              |
| Jacket Thickness                         | 0.432 mm   0.017 in                              |
| Jacket Thickness, minimum spot           | 0.305 mm   0.012 in                              |

## Electrical Specifications

|  |  |
|--|--|
| Capacitance                              | 50.9 pF/m   15.5 pF/ft                     |
| Characteristic Impedance                 | 75 ohm                                     |
| Characteristic Impedance Tolerance       | ±3 ohm                                     |
| Conductor dc Resistance                  | 28.60 ohms/kft                             |
| Dielectric Strength, conductor to shield | 2500 Vdc                                   |
| Jacket Spark Test Voltage                | 2500 Vac                                   |
| Nominal Velocity of Propagation (NVP)    | 84 %                                       |
| 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   | Plenum                               |
| Flame Test Method     | CMP                                  |
| Operating Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |
| Safety Standard       | cETL   ETL                           |

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UL Temperature Rating 75 °C | 167 °F

## General Specifications

|                        |          |
|------------------------|----------|
| Cable Type             | Series 6 |
| Jacket Color           | White    |
| Product Number         | 2281     |
| 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

| Frequency | Attenuation (dB/100 m) | Attenuation (dB/100 ft) |
|-----------|------------------------|-------------------------|
| 1 MHz     | 1.25                   | 0.38                    |
| 10 MHz    | 2.30                   | 0.70                    |
| 50 MHz    | 4.85                   | 1.48                    |
| 100 MHz   | 6.59                   | 2.01                    |
| 200 MHz   | 9.38                   | 2.86                    |
| 400 MHz   | 13.87                  | 4.23                    |
| 700 MHz   | 19.55                  | 5.96                    |
| 900 MHz   | 22.83                  | 6.96                    |
| 1000 MHz  | 24.44                  | 7.45                    |
| 1200 MHz  | 27.06                  | 8.25                    |
| 1450 MHz  | 30.63                  | 9.34                    |
| 1800 MHz  | 35.06                  | 10.69                   |
| 2200 MHz  | 37.85                  | 11.54                   |
| 2500 MHz  | 38.38                  | 11.70                   |
| 3000 MHz  | 42.87                  | 13.07                   |

## Regulatory Compliance/Certifications

| Agency          | Classification   |
|-----------------|--|
| RoHS 2002/95/EC | Compliant  |
| ISO 9001:2008   | Designed, manufactured and/or distributed under this quality management system |

