



8720203/10 | 2281 WHRL RG6 TRI 1000

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

## Product Classification

Portfolio	CommScope®
Product Type	Coaxial video cable
Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America

## 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
Outer Shield (Tape) Material	Aluminum/Poly, non-bonded
Jacket Material	PVC

## Dimensions

Cable Length	305 m   1000 ft
Cable Weight	28.00 lb/kft
Diameter Over Center Conductor	1.0236 mm per 1 strand 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
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Flame Test Method	CMP
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	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 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

