

# 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

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

## General Specifications

<b>Product Number</b>	2281
<b>Cable Type</b>	Series 6
<b>Center Conductor Type</b>	Solid
<b>Construction Type</b>	Non-armored
<b>Jacket Color</b>	White

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Center Conductor Tolerance</b>	±0.0004 in
<b>Diameter Over Center Conductor, specific</b>	0.0403 in per 1 strand
<b>Diameter Over Dielectric</b>	4.318 mm   0.17 in
<b>Diameter Over Jacket, nominal</b>	6.299 mm   0.248 in
<b>Diameter Over Jacket Tolerance</b>	±0.006 in
<b>Diameter Over Shield (Braid)</b>	5.207 mm   0.205 in
<b>Jacket Thickness</b>	0.432 mm   0.017 in
<b>Jacket Thickness, minimum spot</b>	0.305 mm   0.012 in
<b>Center Conductor Gauge</b>	18 AWG
<b>Inner Shield (Braid) Gauge</b>	34 AWG

## Electrical Specifications

<b>Capacitance</b>	50.853 pF/m   15.5 pF/ft
<b>Characteristic Impedance</b>	75 ohm

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<b>Characteristic Impedance Tolerance</b>	±3 ohm
<b>Conductor dc Resistance</b>	93.832 ohms/km   28.6 ohms/kft
<b>Dielectric Strength, conductor to shield</b>	2500 Vdc
<b>Jacket Spark Test Voltage</b>	2500 Vac
<b>Nominal Velocity of Propagation (NVP)</b>	84 %
<b>Structural Return Loss</b>	15 dB @ 1000–3000 MHz   20 dB @ 5–1000 MHz
<b>Structural Return Loss Test Method</b>	100% Swept Tested

## Attenuation

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)
1.0	1.25	0.38
10.0	2.3	0.7
50.0	4.85	1.48
100.0	6.59	2.01
200.0	9.38	2.86
400.0	13.87	4.23
700.0	19.55	5.96
900.0	22.83	6.96
1000.0	24.44	7.45
1200.0	27.06	8.25
1450.0	30.63	9.34
1800.0	35.06	10.69
2200.0	37.85	11.54
2500.0	38.38	11.7
3000.0	42.87	13.07

## Material Specifications

<b>Center Conductor Material</b>	Copper-clad steel wire
<b>Dielectric Material</b>	Foam FEP
<b>Jacket Material</b>	PVC
<b>Inner Shield (Braid) Coverage</b>	77 %
<b>Inner Shield (Braid) Material</b>	Aluminum
<b>Inner Shield (Tape) Material</b>	Aluminum/Poly, bonded
<b>Outer Shield (Tape) Material</b>	Aluminum/Poly, non-bonded

## Mechanical Specifications

<b>Minimum Bend Radius, loaded, times</b>	20 times
<b>Minimum Bend Radius, unloaded, times</b>	10 times

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Environmental Space</b>	Plenum
<b>Temperature Rating, UL</b>	75 °C   167 °F
<b>Flame Test Method</b>	CMP
<b>Safety Standard</b>	ETL   cETL

## Packaging and Weights

<b>Cable weight</b>	41.669 kg/km   28 lb/kft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

