

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

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

General Specifications

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

Dimensions

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 Dielectric	4.318 mm 0.17 in
Diameter Over Jacket, nominal	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
Center Conductor Gauge	18 AWG
Inner Shield (Braid) Gauge	34 AWG

Electrical Specifications

Capacitance	50.853 pF/m 15.5 pF/ft
Characteristic Impedance	75 ohm

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Characteristic Impedance Tolerance	±3 ohm
Conductor dc Resistance	93.832 ohms/km 28.6 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

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

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

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	Plenum
Temperature Rating, UL	75 °C 167 °F
Flame Test Method	CMP
Safety Standard	ETL cETL

Packaging and Weights

Cable weight	41.669 kg/km 28 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

