

8225404/10 | 5781 WHRL RG6 QD 1000



RG 6 Type Quad Shield Non-Plenum Satellite Coaxial Cable, white jacket, 1000 ft (305 m) reel

OBSOLETE

Product Classification

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

General Specifications

Product Number	5781
Cable Type	Series 6
Center Conductor Type	Solid
Construction Type	Non-armored
Jacket Color	White
Supported Application	Satellite

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Center Conductor, specific	0.0403 in per 1 strand
Diameter Over Dielectric	4.572 mm 0.18 in
Diameter Over Inner Shield (Braid)	5.385 mm 0.212 in
Diameter Over Jacket, nominal	7.62 mm 0.3 in
Diameter Over Jacket Tolerance	±0.008 in
Diameter Over Outer Shield (Braid)	5.893 mm 0.232 in
Jacket Thickness	0.864 mm 0.034 in
Jacket Thickness, minimum spot	0.61 mm 0.024 in
Center Conductor Gauge	18 AWG
Inner Shield (Braid) Gauge	34 AWG
Outer Shield (Braid) Gauge	34 AWG

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	2500 Vac
Nominal Velocity of Propagation (NVP)	84 %
Shield dc Resistance	16.076 ohms/km 4.9 ohms/kft
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 ft)
1.0	0.25
10.0	0.66
50.0	1.41
100.0	1.92
200.0	2.64
400.0	3.73
700.0	5.05
900.0	5.79
1000.0	6.11
1200.0	6.73
1450.0	7.49
1800.0	8.43
2200.0	9.35
2500.0	9.97
3000.0	10.92

Material Specifications

Center Conductor Material	Bare copper
Dielectric Material	Foam PE
Jacket Material	PVC

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Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Poly
Outer Shield (Braid) Coverage	40 %
Outer Shield (Braid) Material	Aluminum
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

Environmental Space	Non-plenum
Temperature Rating, UL	75 °C 167 °F
Flame Test Method	CMG
Safety Standard	ETL cETL

Packaging and Weights

Cable weight	50.598 kg/km 34 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

