



RG 6 Type Quad Shield Plenum Video Coaxial Cable, white jacket, 1000 ft (305 m) reel, Build America Buy America (BABA)

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	North America
Portfolio	CommScope®
Product Type	Coaxial video cable
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Product Number	2227V
Cable Type	Series 6
Center Conductor Type	Solid
Construction Type	Non-armored
Jacket Color	White
Location of Manufacturing	Catawba, North Carolina
Supported Application	Video

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Center Conductor, specific	0.0403 in per 1 strand
Diameter Over Dielectric	4.318 mm 0.17 in
Diameter Over Inner Shield (Braid)	5.131 mm 0.202 in
Diameter Over Jacket, nominal	6.604 mm 0.26 in
Diameter Over Jacket Tolerance	±0.006 in
Diameter Over Outer Shield (Braid)	5.74 mm 0.226 in
Jacket Thickness	0.406 mm 0.016 in
Jacket Thickness, minimum spot	0.33 mm 0.013 in

4112704/10 | 2227V WHRL RG6 QD 1000

Center Conductor Gauge	18 AWG
Inner Shield (Braid) Gauge	34 AWG
Outer Shield (Braid) Gauge	34 AWG

Electrical Specifications

Capacitance	50.853 pF/m 15.5 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±3 ohm
Conductor dc Resistance	93.832 ohms/km 28.6 ohms/kft
Dielectric Strength, conductor to shield	2000 Vdc
Jacket Spark Test Voltage	2500 Vac
Nominal Velocity of Propagation (NVP)	84 %
Shield dc Resistance	17.388 ohms/km 5.3 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	0.38
10.0	0.7
50.0	1.48
100.0	2.01
200.0	2.86
400.0	4.23
700.0	5.96
900.0	6.96
1000.0	7.45
1200.0	8.25
1450.0	9.34
1800.0	10.69
2200.0	11.54
2500.0	11.7
3000.0	13.07

Material Specifications

4112704/10 | 2227V WHRL RG6 QD 1000

Center Conductor Material	Copper-clad steel wire
Dielectric Material	Foam FEP
Jacket Material	PVC
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	Plenum
Temperature Rating, UL	75 °C 167 °F
Flame Test Method	CMP
Safety Standard	ETL cETL

Packaging and Weights

Cable weight	43.157 kg/km 29 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

