

4220004/10 | 5781R BKRL RG6 QD 1000



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

Product Classification

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

General Specifications

Product Number	5781R
Cable Type	Series 6
Center Conductor Type	Solid
Construction Type	Non-armored
Jacket Color	Black

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 Dielectric Tolerance	±0.004 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
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

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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 m)	Attenuation (dB/100 ft)
1.0	0.82	0.25
10.0	2.16	0.66
50.0	4.62	1.41
100.0	6.3	1.92
200.0	8.66	2.64
400.0	12.23	3.73
700.0	16.56	5.05
900.0	18.99	5.79
1000.0	20.04	6.11
1200.0	22.07	6.73
1450.0	24.57	7.49
1800.0	27.65	8.43
2200.0	30.67	9.35
2500.0	32.7	9.97
3000.0	35.82	10.92

Material Specifications

Center Conductor Material	Bare copper
Dielectric Material	Foam PE
Jacket Material	PVC
Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Poly, bonded
Outer Shield (Braid) Coverage	40 %
Outer Shield (Braid) Material	Aluminum

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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 Non-plenum

Temperature Rating, UL 75 °C | 167 °F

Flame Test Method CMR

Safety Standard ETL | cETL

Packaging and Weights

Cable weight 50.598 kg/km | 34 lb/kft

Packaging Type Reel

Regulatory Compliance/Certifications

Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

Classification

Below maximum concentration value

Designed, manufactured and/or distributed under this quality management system

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant

