

# Product Specifications



## 5781 BKRL RG6 QD 1000

Material ID: 8223504/10

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



## CHARACTERISTICS

### Construction Materials

Construction Type	Non-armored
Center Conductor Material	Bare copper
Dielectric Material	Foam PE
Inner Shield (Braid) Coverage	60 %
Inner Shield (Braid) Gauge	34 AWG
Inner Shield (Braid) Material	Aluminum
Inner Shield (Tape) Material	Aluminum/Poly
Jacket Material	PVC
Outer Shield (Braid) Coverage	40 %
Outer Shield (Braid) Gauge	34 AWG
Outer Shield (Braid) Material	Aluminum
Outer Shield (Tape) Material	Aluminum/Poly, non-bonded

### Dimensions

Cable Length	305 m   1000 ft
Cable Weight	34.00 lb/kft
Diameter Over Center Conductor	1.0236 mm per 1 strand 0.0403 in per 1 strand
Diameter Over Dielectric	4.5720 mm   0.1800 in
Diameter Over Jacket	7.620 mm   0.300 in
Diameter Over Jacket Tolerance	±0.008 in
Jacket Thickness	0.838 mm   0.033 in
Jacket Thickness, minimum spot	0.610 mm   0.024 in
Diameter Over Inner Shield (Braid)	5.385 mm   0.212 in
Diameter Over Outer Shield (Braid)	5.893 mm   0.232 in

### Electrical Specifications

Capacitance	52.5 pF/m   16.0 pF/ft
Characteristic Impedance	75 ohm
Characteristic Impedance Tolerance	±3 ohm
Conductor dc Resistance	6.40 ohms/kft

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Dielectric Strength, conductor to shield	2500 Vdc
Jacket Spark Test Voltage	4000 Vac
Nominal Velocity of Propagation (NVP)	82 %
Shield dc Resistance	4.90 ohms/kft
Structural Return Loss	15 dB @ 1000–3000 MHz   20 dB @ 5–1000 MHz
Structural Return Loss Test Method	100% Swept Tested

## Environmental Specifications

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

## General Specifications

Application	Satellite
Cable Type	Series 6
Jacket Color	Black
Product Number	5781
Center Conductor Gauge	18 AWG
Center Conductor Type	Solid
Packaging Type	Reel

## Mechanical Specifications

Minimum Bend Radius, loaded	20 times
Minimum Bend Radius, unloaded	10 times

## Electrical Performance

Frequency	Attenuation (dB/100 ft)
1 MHz	0.25
10 MHz	0.66
50 MHz	1.41
100 MHz	1.92
200 MHz	2.64
400 MHz	3.73
700 MHz	5.05
900 MHz	5.79
1000 MHz	6.11
1200 MHz	6.73
1450 MHz	7.49
1800 MHz	8.43
2200 MHz	9.35
2500 MHz	9.97
3000 MHz	10.92

## Regulatory Compliance/Certifications



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**Agency**

RoHS 2002/95/EC  
ISO 9001:2008

**Classification**

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

