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1-800-Belden1



General Description:

19 AWG stranded (7x27) bare copper conductor, gas-injected foam HDPE insulation, double tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 19 | 7x27 | BC - Bare Copper | .040 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .180 |

Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1 | Braid | TC - Tinned Copper | 95.000 |
| 2 | Braid | TC - Tinned Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.276 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 50 lbs/1000 ft.

Max. Recommended Pulling Tension: 116 lbs.

Min. Bend Radius/Minor Axis: 2.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 6/U

Flame Test

UL Flame Test: UL1666 Vertical Shaft

Suitability

Suitability - Indoor: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 1695A

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
0.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

Nominal Velocity of Propagation:

VP (%)
81

Nominal Delay:

Delay (ns/ft)
1.25

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.7

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.240 |
| 3.580 | 0.450 |
| 5.000 | 0.540 |
| 6.000 | 0.550 |
| 7.000 | 0.620 |
| 10.000 | 0.720 |
| 12.000 | 0.830 |
| 25.000 | 1.180 |
| 67.500 | 1.900 |
| 71.500 | 2.000 |
| 88.500 | 2.200 |
| 100.000 | 2.400 |
| 135.000 | 2.800 |
| 143.000 | 2.900 |
| 180.000 | 3.300 |
| 270.000 | 4.000 |
| 360.000 | 4.700 |
| 540.000 | 5.900 |
| 720.000 | 6.900 |
| 750.000 | 7.000 |
| 1000.000 | 8.200 |
| 1500.000 | 10.400 |
| 2000.000 | 12.300 |
| 2250.000 | 13.200 |
| 3000.000 | 15.600 |
| 4500.000 | 19.800 |

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-UL:

1694F Coax - Low Loss Serial Digital Coax

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5 | 850 | 20 |
| 850 | 4500 | 15 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|---------------|-------|---------------------------|
| 1694F B591000 | 1,000 FT | 54.000 LB | BLACK, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G7V1000 | 1,000 FT | 54.000 LB | RED, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G7W1000 | 1,000 FT | 54.000 LB | GREEN, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G7X1000 | 1,000 FT | 54.000 LB | BLUE, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G7Y1000 | 1,000 FT | 54.000 LB | WHITE, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G8L1000 | 1,000 FT | 54.000 LB | ORANGE, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F G8M1000 | 1,000 FT | 54.000 LB | YELLOW, MATTE | C | #19 GIFHDLDPPE DBLB FRPVC |
| 1694F Z4B1000 | 1,000 FT | 54.000 LB | VIO Z4B | C | #19 GIFHDLDPPE DBLB FRPVC |

Notes:
C = CRATE REEL PUT-UP.

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