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1-800-Belden1



CoreGuard®



## General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor with Coreguard®, gas-injected foam polyethylene insulation, with Coreguard® and flooding compound, Duobond® IV quad shield (60% and 40% coverage), polyethylene jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material               | Dia. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1      | 18  | Solid     | BCCS - Bare Copper Covered Steel | 1.016     |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material                  | Dia. (mm) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 4.572     |

### Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material                             | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1       | Bonded Duofoil®         | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                         | Braid | AL - Aluminum                                     | 60           |
| 3       | Duofoil®                | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil        | 100          |
| 4       |                         | Braid | AL - Aluminum                                     | 40           |

Outer Shield Flooding Grease: CoreGuard®

### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene     |

### Overall Cable

Overall Nominal Diameter: 7.569 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -55°C To +80°C

Bulk Cable Weight: 41.670 Kg/Km

Max. Recommended Pulling Tension: 720.608 N

Min. Bend Radius/Minor Axis: 76.200 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

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

EU CE Mark: No

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

Series Type: Series 6

### Suitability

Suitability - Burial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75.000

### Nom. Inductance:

Inductance (µH/m)

0.318257

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

### Nominal Velocity of Propagation:

VP (%)

83

### Nominal Delay:

Delay (ns/m)

3.9372

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

91.868

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

15.7488

### Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 5           | 2.19827               |
| 55          | 5.2496                |
| 211         | 9.41647               |
| 270         | 10.6304               |
| 300         | 11.2538               |
| 350         | 12.2053               |
| 400         | 13.124                |
| 450         | 13.9771               |
| 550         | 15.4535               |
| 750         | 18.3408               |
| 870         | 19.686                |
| 1000        | 21.4577               |

### Max. Operating Voltage - Non-UL:

Voltage

350 V RMS

### Minimum Structural Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|-------------|-------------------|------------------|---------------|
|-------------|-------------|-------------------|------------------|---------------|

|  |  |   |      |    |
|--|--|---|------|----|
|  |  | 5 | 1000 | 20 |
|--|--|---|------|----|

**Sweep Test**

Sweep Testing: 5 MHz - 1 GHz

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc                |
|---------------|----------|-------------|--------|-------|--------------------------|
| 1190A 0031000 | 1,000 FT | 35.000 LB   | ORANGE | C     | #18 GIFHDLDPPE DBL SH PE |
| 1190A 0101000 | 1,000 FT | 35.000 LB   | BLACK  | C     | #18 GIFHDLDPPE DBL SH PE |

**Notes:**

C = CRATE REEL PUT-UP.

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