# **Detailed Specifications & Technical Data**

# **ENGLISH MEASUREMENT VERSION**



# 1616AM Coax - CATV Cable

For more Information please call

1-800-Belden1



# **General Description:**

Series 6, 18 AWG solid .040" bare copper-covered steel conductor(s), gas-injected foam polyethylene insulation, Duobond® III + aluminum braid shield (77% coverage), PVC jacket.

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# **Physical Characteristics (Overall)**

# Conductor

### AWG:

| # Coax AWG Stranding |    | Stranding | Conductor Material               | Dia. (in.) |
|----------------------|----|-----------|----------------------------------|------------|
| 1                    | 18 | Solid     | BCCS - Bare Copper Covered Steel | .040       |

**Total Number of Conductors:** 

# Insulation

# **Insulation Material:**

| Insulation Material                  | Dia. (in.) |
|--------------------------------------|------------|
| Gas-injected FPE - Foam Polyethylene | .180       |

# **Outer Shield**

# **Outer Shield Material:**

| Layer # | Layer # Outer Shield Trade Name |       | Outer Shield Material                             | Coverage (%) |
|---------|---------------------------------|-------|---|--------------|
| 1       | Bonded Duofoil®                 | Tape  | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100          |
| 2       |                                 | Braid | AL - Aluminum                                     | 77           |
| 3       | Duofoil®                        | Tape  | Aluminum Foil-Polyester Tape-Aluminum Foil        | 100          |

**Outer Shield Flooding Grease:** Coreguard®

# **Outer Jacket**

# **Outer Jacket Material:**

| Outer | Jacket  | Material    |
|-------|---------|-------------|
| PVC - | Polyvin | yl Chloride |

# Messenger

| Overall Cable       |                  |
|---------------------|------------------|
| Messenger Material: | Galvanized Steel |
| Messenger Diameter: | 0.051 in.        |

**Overall Nominal Diameter:** 0.275 x 0.416 in.

# **Mechanical Characteristics (Overall)**

| •                                 |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -40°C To +80°C  |
| Non-UL Temperature Rating:        | 80°C            |
| Bulk Cable Weight:                | 42 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 110 lbs.        |
| Min. Bend Radius/Minor Axis:      | 3 in.           |

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

| EU Directive 2011/65/EU (ROHS II): | Yes |  |
|------------------------------------|-----|--|
| EU CE Mark:                        | No  |  |

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| 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   |
| enum/Non-Plenum                       |            |
| Plenum (Y/N):                         | No         |

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



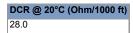
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.6

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5           | 0.67                     |
| 55          | 1.60                     |
| 211         | 2.87                     |
| 270         | 3.24                     |
| 300         | 3.43                     |
| 350         | 3.72                     |
| 400         | 4.00                     |
| 450         | 4.26                     |
| 550         | 4.71                     |
| 750         | 5.59                     |
| 870         | 6.00                     |
| 1000        | 6.54                     |

Max. Operating Voltage - Non-UL:



**Minimum Structural Return Loss:** 

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| Description | n Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|---------------|-------------------|------------------|---------------|
|             |               | 5                 | 1000             | 20            |

**Sweep Test** 

Sweep Testing: 5 MHz to 1 GHz

# **Notes (Overall)**

Notes: Minimum bend radius for minor axis only.

# **Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                      |
|----------------|----------|-------------|-------|-------|--------------------------------|
| 1616AM 0101000 | 1,000 FT | 45.000 LB   | BLACK |       | #18 GIFHDLDPE SH FS PVC W/MSGR |

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