



**Product:** <u>6439C8</u> ☑

Surveillance CATV MATV, RG-59 #20 BC, Duofoil® + 90% AL Braid, CMP-CATVP

# **Product Description**

Surveillance, CATV & MATV Cable, RG59, Plenum-CMP & CATVP, 20 AWG solid bare copper, foam FEP core, Duofoil® + 90% aluminum braid, Flamarrest® jacket

# **Technical Specifications**

### **Product Overview**

| Suitable Applications: | CATV, MATV |
|------------------------|------------|
|                        |            |

# **Physical Characteristics (Overall)**

#### Conductor

| AWG | Stranding | Material         | Nominal Diameter | No. of Coax |
|-----|-----------|------------------|------------------|-------------|
| 20  | Solid     | BC - Bare Copper | 0.032 in         | 1           |

#### Insulation

| Material                                    | Nominal Diameter |
|---|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.133 in         |

#### Outer Shield

| Type  | Layer | Material                      | Material Trade Name | Coverage [%] |
|-------|-------|-------------------------------|---------------------|--------------|
| Tape  | 1     | Tri-Laminate (Alum+Poly+Alum) | Duofoil®            | 100%         |
| Braid | 2     | Aluminum                      |                     | 90%          |

## Outer Jacket

| Material                 | Material Trade Name | Nominal Diameter |
|--------------------------|---------------------|------------------|
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.199 in         |

#### **Electrical Characteristics**

## Conductor DCR

| Nominal Conductor<br>DCR | Nominal Conductor DCR Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
|--------------------------|--|--------------------------|---------------------|
| 10 Ohm/1000ft            | 10 Ohm/1000ft                              | 5.5 Ohm/1000ft           | 5.5 Ohm/1000ft      |

## Capacitance

Nom. Capacitance Conductor to Shield 16.3 pF/ft

#### Inductance

Nominal Inductance

# Impedance

Nominal Characteristic Impedance 75 Ohm

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.4 dB/100ft        |
| 10 MHz          | 0.8 dB/100ft        |
| 50 MHz          | 1.8 dB/100ft        |
| 100 MHz         | 2.6 dB/100ft        |
| 200 MHz         | 3.8 dB/100ft        |
| 400 MHz         | 5.6 dB/100ft        |
| 700 MHz         | 7.6 dB/100ft        |
| 900 MHz         | 8.8 dB/100ft        |
| 1000 MHz        | 9.4 dB/100ft        |

### Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|--|
| 83 ns/100m      | 1.21 ns/ft    | 84%                                      |

## Voltage

UL Voltage Rating 300 V RMS

# **Temperature Range**

| UL Temp Rating:              | 75°C         |
|------------------------------|--------------|
| Operating Temperature Range: | 0°C To +75°C |

# **Mechanical Characteristics**

| Bulk Cable Weight:           | 20 lbs/1000ft |
|------------------------------|---------------|
| Max. Pull Tension:           | 53 lbs        |
| Min. Bend Radius/Minor Axis: | 2 in          |

# **Standards**

| NEC/(UL) Compliance:  | CATV, CMP |
|-----------------------|-----------|
| CEC/C(UL) Compliance: | CMP       |
| RG Type:              | 59        |
| Series Type:          | 59        |

# **Applicable Environmental and Other Programs**

| EU Directive 2000/53/EC (ELV):               | Yes |
|--|-----|
| EU Directive 2003/11/EC (BFR):               | Yes |
| EU Directive 2011/65/EU (RoHS 2):            | Yes |
| EU Directive 2012/19/EU (WEEE):              | Yes |
| EU Directive 2015/863/EU (RoHS 2 amendment): | Yes |
| EU Directive Compliance:                     | Yes |
| MII Order #39 (China RoHS):                  | Yes |

# Suitability

| Suitability - Burial:              | No  |
|------------------------------------|-----|
| Suitability - Hazardous Locations: | No  |
| Suitability - Indoor:              | Yes |

# Flammability, LS0H, Toxicity Testing

|   | UL Flammability:   | NFPA 262  |
|---|--------------------|-----------|
| П | UL voltage rating: | 300 V RMS |

# Plenum/Non-Plenum

| Plenum (Y/N): | Yes |
|---------------|-----|
|               |     |

# **Related Part Numbers**

# Variants

| Item #         | Color   | Put-Up Type | Length   | UPC          |
|----------------|---------|-------------|----------|--------------|
| 6439C8 8771000 | Natural | Reel        | 1,000 ft | 612825176862 |

| Footnote:     | C - CRATE REEL PUT-UP.                          |
|---------------|---|
| Product Notes |   |
| Notes:        | Print legend includes sequential footage marks. |
|               |   |

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