



Product: [633938](#)

Surveillance CATV MATV, RG-6 #18 BC, Duofoil® + 90% AL Braid, CMP-CATVP

Product Description

Surveillance, CATV & MATV Cable, RG6, Plenum-CMP & CATVP, 18 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 Conductors | No. of Coax |
|-----|-----------|------------------|------------------|-------------------|-------------|
| 18  | Solid     | BC - Bare Copper | 0.04 in          |                   | 1           |
|     |           |                  |                  | 2                 |             |

Conductor Count: 1

Insulation

| Material                                    | Nominal Diameter |
|---------------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.17 in          |

Color Chart

| Number |
|--------|
| 1      |

Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly / Alum | Duofoil®            | 100%         |
| Braid | 2     | Aluminum           |                     | 90%          |

Outer Jacket Material

| Material                                | Material Trade Name | Nominal Diameter |
|-----------------------------------------|---------------------|------------------|
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.233 in         |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 6.4 Ohm/1000ft        | 3.5 Ohm/1000ft           | 3.5 Ohm/1000ft      |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 16.3 pF/ft                           |

Inductance

| Nominal Inductance |
|--------------------|
| 0.097 µH/ft        |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.24 dB/100ft       |
| 3 MHz           | 0.45 dB/100ft       |
| 5 MHz           | 0.55 dB/100ft       |
| 8 MHz           | 0.7 dB/100ft        |
| 10 MHz          | 0.85 dB/100ft       |
| 50 MHz          | 1.5 dB/100ft        |
| 100 MHz         | 2.1 dB/100ft        |
| 200 MHz         | 3.1 dB/100ft        |
| 400 MHz         | 4.5 dB/100ft        |
| 700 MHz         | 6 dB/100ft          |
| 900 MHz         | 6.9 dB/100ft        |
| 1000 MHz        | 7.3 dB/100ft        |

Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|------------------------------------------|
| 83 ns/100m      | 1.24 ns/ft    | 83%                                      |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |                |
|-----------------------|----------------|
| UL Temp Rating:       | 75°C           |
| Operating Temp Range: | -20°C To +75°C |

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 28 lbs/1000ft |
| Max. Pull Tension:          | 104 lbs       |
| Min Bend Radius/Minor Axis: | 2.25 in       |

Standards

|                       |             |
|-----------------------|-------------|
| NEC Articles:         | Article 820 |
| NEC/(UL) Compliance:  | CATVP, CMP  |
| CEC/C(UL) Compliance: | CMP         |
| RG Type:              | 6/U Type    |
| Series Type:          | Series 6    |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                     |                                    |
|---------------------|------------------------------------|
| C(UL) Flammability: | FT6                                |
| UL Flammability:    | NFPA 262 Plenum Flame Test (UL910) |

|                    |           |
|--------------------|-----------|
| UL voltage rating: | 300 V RMS |
|--------------------|-----------|

Plenum/Non-Plenum

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

Part Number

Variants

| Item #          | Color   | Putup Type | Length   | UPC          |
|-----------------|---------|------------|----------|--------------|
| 633938 010U1000 | Black   | UnReel     | 1,000 ft | 612825176091 |
| 633938 008U1000 | Gray    | UnReel     | 1,000 ft | 612825176077 |
| 633938 877500   | Natural | Reel       | 500 ft   | 612825176121 |
| 633938 8771000  | Natural | Reel       | 1,000 ft | 612825176114 |
| 633938 877U1000 | Natural | UnReel     | 1,000 ft | 612825176107 |
| 633938 009U1000 | White   | UnReel     | 1,000 ft | 612825176084 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.240 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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