

**Part Number:** 85231

Control/Instrumentation, (2) 16 AWG (19x29) TC,  
ETFE/ETFE, Alum Foil Shld

## Product Description

Two 16 AWG stranded (19x29) tinned copper conductors, Tefzel® (ETFE) insulation, overall Aluminum-Kapton® shield (100% coverage), Tefzel® (ETFE) jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| AWG                         | Stranding | Material           | No. of Conductors |
|-----------------------------|-----------|--------------------|-------------------|
| 16                          | 19x29     | TC - Tinned Copper | 2                 |
| Total Number of Conductors: |           |                    | 2                 |

#### Insulation:

| Material                            | Material Trade Name | Nominal Wall Thickness |
|-------------------------------------|---------------------|------------------------|
| ETFE - Ethylene Tetrafluoroethylene | Tefzel®             | 0.0135 in              |

#### Color Chart 1:

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |

#### Outershield 1:

| Type | Material              | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-----------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum-Kapton® Foil | 100 %        | TC - Tinned Copper | 18            | Stranded mm                  |

#### Outerjacket 1:

| Material                            | Material Trade Name | Nominal Diameter | Nominal Wall Thickness |
|-------------------------------------|---------------------|------------------|------------------------|
| ETFE - Ethylene Tetrafluoroethylene | Tefzel®             | 0.21 in          | 0.02 in                |

Electrical Characteristics

Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 4.27 Ohm/1000ft       |

Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 44 pF/ft                                | 79 pF/ft  |

Current:

| Max. Recommended Current [A]  |
|-------------------------------|
| 6.5 Amps per conductor @ 25°C |

Inductance:

| Nominal Inductance |
|--------------------|
| 0.165 µH/ft        |

Voltage:

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

Use

|                                  |        |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 60 lbs |
|----------------------------------|--------|

Safety

|                  |      |
|------------------|------|
| UL Flammability: | VW-1 |
|------------------|------|

Temperature Range

|                       |                 |
|-----------------------|-----------------|
| Non-UL Temp Rating:   | 150°C           |
| Operating Temp Range: | -60°C To +150°C |

Mechanical Characteristics

Part Number

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

Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| Other Specification:              | Other Specification              |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |
| EU CE Mark:                       | EU CE Mark                       |

History

Product Variants

| Part Number   | Color              | Put-Up Type | Length  |
|---------------|--------------------|-------------|---------|
| 85231 3681000 | CLEAR, TRANSPARENT | Reel        | 1000 ft |
| 85231 368500  | CLEAR, TRANSPARENT | Reel        | 500 ft  |

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