



**Product:** [85240](#) 

Electronic, 3 C #20 Str TC, ETFE Ins, OS, ETFE Jkt

 [Request Sample](#)

**Product Description**

High Temperature Electronic, 3 Conductor 20AWG (7x28) Tinned Copper, ETFE Insulation, Overall Beldfoil® Shield, ETFE Outer Jacket

**Technical Specifications**

**Product Overview**

|                        |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); instrumentation |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Construction Details**

**Conductor**

| Element      | Number of Element | Size   | Stranding | Material           |
|--------------|-------------------|--------|-----------|--------------------|
| Conductor(s) | 3                 | 20 AWG | 7x28      | TC - Tinned Copper |

**Insulation**

| Element      | Material                            | Nom. Thickness     | Color Code        |
|--------------|-------------------------------------|--------------------|-------------------|
| Conductor(s) | ETFE - Ethylene Tetrafluoroethylene | 0.015 in (0.38 mm) | Black, Red, Green |

**Outer Shield**

| Shield Type | Material                   | Coverage | Drainwire Type   |
|-------------|----------------------------|----------|------------------|
| Tape        | Bi-Laminate (Alum+Kapton®) | 100%     | 22 AWG (7x30) TC |

**Outer Jacket**

| Material                            | Nom. Thickness     | Nom. Diameter      |
|-------------------------------------|--------------------|--------------------|
| ETFE - Ethylene Tetrafluoroethylene | 0.020 in (0.51 mm) | 0.193 in (4.90 mm) |

|                           |                    |
|---------------------------|--------------------|
| Cable Diameter (Nominal): | 0.193 in (4.90 mm) |
|---------------------------|--------------------|

**Electrical Characteristics**

**Electricals**

| Element      | Nom. Conductor DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                 |
|--------------|----------------------------|-------------------------------|-------------------------------------------------|------------------------------|
| Conductor(s) | 9.5 Ohm/1000ft (31 Ohm/km) | 26.5 pF/ft (86.9 pF/m)        | 47.7 pF/ft (156 pF/m)                           | 4 Amps per Conductor at 25°C |

**Voltage**

| Voltage Rating |
|----------------|
| 350 V          |

**Mechanical Characteristics**

**Temperature**

| UL Temperature | Operating       |
|----------------|-----------------|
| 150°C          | -60°C to +150°C |

**Bend Radius**

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 1.9 in (48 mm)  | 1.9 in (48 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 47 lbs (21 kg) |
|--------------------|----------------|

|                    |                          |
|--------------------|--------------------------|
| Bulk Cable Weight: | 27 lbs/1000ft (40 kg/km) |
|--------------------|--------------------------|

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                                                                    |
| Sustainability:                  | CA Prop 65                                                                                                                |
| Flammability / Reaction to Fire: | VW-1                                                                                                                      |
| European Directive Compliance:   | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |

Product Notes

|        |                                          |
|--------|------------------------------------------|
| Notes: | Tefzel and Kapton are DuPont trademarks. |
|--------|------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.352 Revision Date: 10-27-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #        | Color              | Putup Type | Length   | UPC          |
|---------------|--------------------|------------|----------|--------------|
| 85240 3681000 | Clear, Transparent | Reel       | 1,000 ft | 612825212409 |

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