



Product: [83562](#)

Electronic, 12 C #22 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

Request Sample

Product Description

High Temperature Electronic, 12 Conductor 22AWG (7x30) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, FEP Outer Jacket, CMP

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | extreme high/low temperature environments; chemical resistant; outdoor and burial applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...); line level audio; voice communications; panel wiring |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Construction Details

| Conductor    |                   |        |           |                    |
|--------------|-------------------|--------|-----------|--------------------|
| Element      | Number of Element | Size   | Stranding | Material           |
| Conductor(s) | 12                | 22 AWG | 7x30      | TC - Tinned Copper |

| Insulation   |                                      |                    |                          |                                                                                                                                                              |
|--------------|--------------------------------------|--------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Element      | Material                             | Nom. Thickness     | Nom. Insulation Diameter | Color Code                                                                                                                                                   |
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.007 in (0.18 mm) | 0.042 in (1.1 mm)        | Black, White, Red, Green, Orange, Blue, White/Black Stripe, Red/Black Stripe, Green/Black Stripe, Orange/Black Stripe, Blue/Black Stripe, Black/White Stripe |

| Outer Shield |                         |          |
|--------------|-------------------------|----------|
| Shield Type  | Material                | Coverage |
| Tape         | Bi-Laminate (Alum+Poly) | 100%     |
| Braid        | Tinned Copper (TC)      | 85%      |

| Outer Jacket                         |                    |                    |
|--------------------------------------|--------------------|--------------------|
| Material                             | Nom. Thickness     | Nom. Diameter      |
| FEP - Fluorinated Ethylene Propylene | 0.014 in (0.36 mm) | 0.234 in (5.94 mm) |
| Overall Cable Diameter (Nominal):    | 0.234 in (5.94 mm) |                    |

Electrical Characteristics

| Electricals  |                    |                               |                                                 |                                |
|--------------|--------------------|-------------------------------|-------------------------------------------------|--------------------------------|
| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
| Conductor(s) | 15.5 Ohm/1000ft    | 23 pF/ft (75 pF/m)            | 40 pF/ft (130 pF/m)                             | 1.9 Amps per Conductor at 25°C |

| Voltage           |  |
|-------------------|--|
| UL Voltage Rating |  |
| 300 V (CMP)       |  |

Mechanical Characteristics

| Temperature    |                 |
|----------------|-----------------|
| UL Temperature | Operating       |
| 150°C          | -70°C to +200°C |

Bend Radius

| Stationary Min.   | Installation Min. |
|-------------------|-------------------|
| 2.34 in (59.4 mm) | 2.34 in (59.4 mm) |

|                    |                   |
|--------------------|-------------------|
| Max. Pull Tension: | 115 lbs (52.2 kg) |
| Bulk Cable Weight: | 57 lbs/1000ft     |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor - Plenum, Indoor, Outdoor, Sunlight Resistance, Oil Resistance                                                     |
| Sustainability:                  | CA Prop 65                                                                                                                |
| Flammability / Reaction to Fire: | NFPA 262, UL 910 (Plenum), FT6                                                                                            |
| NEC / UL Compliance:             | Article 800, CMP                                                                                                          |
| CEC / C(UL) Compliance:          | CMP                                                                                                                       |
| 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: | Gas Resistant |
|--------|---------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.508 Revision Date: 01-20-2023 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color | Putup Type | Length   | UPC          |
|---------------|-------|------------|----------|--------------|
| 83562 002500  | Red   | Reel       | 500 ft   | 612825205050 |
| 83562 0021000 | Red   | Reel       | 1,000 ft | 612825205043 |

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