



Product: [83662](#)

Electronic, 12 C #18 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

[Request Sample](#)

Product Description

High Temperature Electronic, 12 Conductor 18AWG (19x30) 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 | 18 AWG | 19x30 | 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) | 0.057 in (1.4 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 | 0.015 in (0.38 mm) | 0.296 in (7.52 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.296 in (7.52 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|--------------------|-------------------------------|---|--------------------------------|
| Conductor(s) | 7.06 Ohm/1000ft | 33 pF/ft (110 pF/m) | 60 pF/ft (200 pF/m) | 3.8 Amps per Conductor at 25°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 3.0 in (76 mm) | 3.0 in (76 mm) |

| | |
|--------------------|------------------|
| Max. Pull Tension: | 355 lbs (161 kg) |
| Bulk Cable Weight: | 102 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Oil Resistance, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 (UL 910), FT6, IEC 60332-1-2 |
| CPR Compliance: | CPR Euroclass: Eca |
| 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) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |

Product Notes

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|--------|---------------|
| Notes: | Gas Resistant |
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History

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| Update and Revision: | Revision Number: 0.513 Revision Date: 01-20-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 83662 002100 | Red | Reel | 100 ft | 612825205432 |
| 83662 002500 | Red | Reel | 500 ft | 612825205456 |
| 83662 0021000 | Red | Reel | 1,000 ft | 612825205449 |

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