



Product: [83806](#)

Electronic, 6 C #12 Str TC, FEP Ins, OS+TC Brd, Red FEP Jkt, CMP FPLP

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Product Description

High Temperature Electronic, 6 Conductor 12AWG (7x20) Tinned Copper, FEP Insulation, Overall Beldfoil®+Tinned Copper Braid(85%) Shield, Red FEP Outer Jacket, CMP FPLP

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | fire alarms; extreme high/low temperature environments; indoor/outdoor applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...) |
|------------------------|--|

Construction Details

Conductor

| Element | No. of Elements | Size | Stranding | Material |
|--------------|-----------------|--------|-----------|--------------------|
| Conductor(s) | 6 | 12 AWG | 7x20 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Nom. Insulation Diameter | Color Code |
|--------------|--------------------------------------|--------------------|--------------------------|--|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.016 in (0.41 mm) | 0.123 in (3.12 mm) | Black, White, Red, Green, Orange, Blue |

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 | 0.020 in (0.51 mm) | 0.436 in (11.1 mm) |

Overall Cable Diameter (Nominal): 0.436 in (11.1 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|--------------------|-------------------------------|---|-------------------------------|
| Conductor(s) | 1.74 Ohm/1000ft | 32 pF/ft (100 pF/m) | 55 pF/ft (180 pF/m) | 17 Amps per Conductor at 25°C |

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| | |

| | |
|-----------------|-----------------|
| 4.3 in (110 mm) | 4.3 in (110 mm) |
|-----------------|-----------------|

| | |
|--------------------|------------------|
| Max. Pull Tension: | 587 lbs (266 kg) |
|--------------------|------------------|

| | |
|--------------------|----------------|
| Bulk Cable Weight: | 197 lbs/1000ft |
|--------------------|----------------|

Standards and Compliance

| | |
|----------------------------|---|
| Environmental Suitability: | Indoor, Outdoor, Oil Resistance, Burial |
|----------------------------|---|

| | |
|----------------------------------|---------------------------------------|
| Flammability / Reaction to Fire: | NFPA 262 (UL 910), FT6, IEC 60332-1-2 |
|----------------------------------|---------------------------------------|

| | |
|-----------------|--------------------|
| CPR Compliance: | CPR Euroclass: Eca |
|-----------------|--------------------|

| | |
|----------------------|--------------------------|
| NEC / UL Compliance: | Article 760, Article 800 |
|----------------------|--------------------------|

| | |
|-------------------------|-----|
| CEC / C(UL) Compliance: | CMP |
|-------------------------|-----|

| | |
|--------------------------------|--|
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
|--------------------------------|--|

| | |
|---------------------------|-----------|
| UK Regulation Compliance: | UKCA Mark |
|---------------------------|-----------|

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|------------------|---------------------------------|
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
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Product Notes

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

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| Update and Revision: | Revision Number: 0.515 Revision Date: 02-03-2025 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 83806 002100 | Red | Reel | 100 ft | 612825205807 | C |
| 83806 0021000 | Red | Reel | 1,000 ft | 612825205814 | C |

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