



Product: [83553](#)

Electronic, 3 C #22 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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Product Description

High Temperature Electronic, 3 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 | No. of Elements | Size | Stranding | Material |
| Conductor(s) | 3 | 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 |

| 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) | 0.150 in (3.81 mm) | |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.150 in (3.81 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) | 2.8 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. |
|-----------------|-------------------|
| 1.5 in (38 mm) | 1.5 in (38 mm) |

| | |
|--------------------|--------------------|
| Max. Pull Tension: | 27.3 lbs (12.4 kg) |
| Bulk Cable Weight: | 20 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 |
| 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), REACH, 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

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

History

| | |
|----------------------|--|
| Update and Revision: | Revision Number: 0.518 Revision Date: 11-27-2023 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 83553 002100 | Red | Reel | 100 ft | 612825204916 | C |
| 83553 002500 | Red | Reel | 500 ft | 612825204930 | C |
| 83553 0021000 | Red | Reel | 1,000 ft | 612825204923 | C |
| 83553 0025000 | Red | Reel | 5,000 ft | 612825204947 | C Z |

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