



REPRESENTATIVE IMAGE

Product: [83604](#)

Electronic, 4 C #20 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

[Request Sample](#)

Product Description

High Temperature Electronic, 4 Conductor 20AWG (7x28) 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) | 4 | 20 AWG | 7x28 | TC - Tinned Copper |

Insulation

| Element | Material | Nom. Thickness | Color Code |
|--------------|--------------------------------------|--------------------|--------------------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.006 in (0.15 mm) | Black, White, Red, Green |

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) | 0.178 in (4.52 mm) |

Overall Cable Diameter (Nominal): 0.178 in (4.52 mm)

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current |
|--------------|----------------------------|-------------------------------|---|------------------------------|
| Conductor(s) | 8.6 Ohm/1000ft (28 Ohm/km) | 26 pF/ft (85 pF/m) | 51 pF/ft (170 pF/m) | 3 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. |
|-----------------|-------------------|
| 1.8 in (46 mm) | 1.8 in (46 mm) |

| | |
|--------------------|--------------------------|
| Max. Pull Tension: | 90 lbs (41 kg) |
| Bulk Cable Weight: | 32 lbs/1000ft (48 kg/km) |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor - Plenum, Indoor, Outdoor, Oil Resistance, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262, FT6, IEC 60332-1-2 |
| 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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.355 Revision Date: 12-15-2021 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 83604 002100 | Red | Reel | 100 ft | 612825205111 |
| 83604 002500 | Red | Reel | 500 ft | 612825205135 |
| 83604 0021000 | Red | Reel | 1,000 ft | 612825205128 |

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