



Product: [83554](#)

Electronic, 4 C #22 Str TC, FEP Ins, OS+TC Brd, FEP Jkt, CMP

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Product Description

High Temperature Electronic, 4 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 |
|------------------------|---|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 22 | 7x30 | TC - Tinned Copper | 4 |

| | |
|------------------|---|
| Conductor Count: | 4 |
|------------------|---|

Insulation

| Material | Nominal Wall Thickness |
|--------------------------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.0065 in |

Color Chart

| Number | Color |
|--------|-------|
| 1 | Black |
| 2 | White |
| 3 | Red |
| 4 | Green |

Outer Shield Material

| Type | Layer | Material | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape | 1 | Alum / Poly | Beldfoil® | 100 % |
| Braid | 2 | TC - Tinned Copper | | 85 % |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------------------|------------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.159 in | 0.014 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 15.5 Ohm/1000ft | 4.9 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 23 pF/ft | 40 pF/ft |

Current

| Max. Recommended Current [A] |
|-------------------------------|
| 2.2 Amps per conductor @ 25°C |

Voltage

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

Temperature Range

| | |
|-----------------------|-----------------|
| Operating Temp Range: | -70°C To +200°C |
|-----------------------|-----------------|

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 25 lbs/1000ft |
| Max Recommended Pulling Tension: | 40 lbs |
| Min Bend Radius/Minor Axis: | 1.75 in |

Standards

| | |
|--------------------------|-----|
| NEC Articles: | 800 |
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| CPR Euroclass: | Eca |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/EC (BFR): | Yes |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2012/19/EU (WEEE): | Yes |
| EU Directive 2015/863/EU: | Yes |
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01 |
| MII Order #39 (China RoHS): | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|-----------------------|---------------|
| UL Flammability: | NFPA 262 |
| CSA Flammability: | FT6 |
| ISO/IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| | |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 83554 002100 | Red | Reel | 100 ft | 612825204954 |
| 83554 002500 | Red | Reel | 500 ft | 612825204978 |
| 83554 0021000 | Red | Reel | 1,000 ft | 612825204961 |

| | |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

| | |
|--------|---|
| Notes: | Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application. |
|--------|---|

History

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|----------------------|--|
| Update and Revision: | Revision Number: 0.292 Revision Date: 04-28-2020 |
|----------------------|--|

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