



**Product:** [83396](#)

Electronic, 4 C #22 Str TC, FEP Ins, OS, Silicone Jkt, AWM 4516

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## Product Description

High Temperature Electronic, 4 Conductor 22AWG (7x30) Tinned Copper, FEP Insulation, Overall Beldfoil® Shield, Silicone Outer Jacket, AWM 4516

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | extreme high/low temperature environments; 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 | AWG | Stranding | Material           |
|--------------|-------------------|-----|-----------|--------------------|
| Conductor(s) | 4                 | 22  | 7x30      | TC - Tinned Copper |

#### Insulation

| Element      | Material                             | Thickness [in.] | Color Code               |
|--------------|--------------------------------------|-----------------|--------------------------|
| Conductor(s) | FEP - Fluorinated Ethylene Propylene | 0.016           | Black, White, Red, Green |

#### Outer Shield Material

| Shield Type | Material                                       | Coverage    | Drainwire Type   |
|-------------|--|-------------|------------------|
| Tape + Tape | Textile (Conductive) + Bi-Laminate (Alum+Poly) | 100% + 100% | 22 AWG (7x30) TC |

#### Outer Jacket Material

| Material        | Thickness | Nom. Diameter |
|-----------------|-----------|---------------|
| Silicone Rubber | 0.030 in  | 0.217 in      |

|                           |          |
|---------------------------|----------|
| Cable Diameter (Nominal): | 0.217 in |
|---------------------------|----------|

### Electrical Characteristics

#### Electricals

| Element      | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Max. Current                   |
|--------------|--------------------|-------------------------------|---|--------------------------------|
| Conductor(s) | 17.5 Ohm/1000ft    | 22 pF/ft                      | 40 pF/ft  | 2.8 Amps per Conductor at 25°C |

#### Voltage

| UL Voltage Rating   | Non-UL Voltage Rating                                  |
|---------------------|--|
| 600 V (UL AWM 4516) | 350 V (Between Conductors), 2000 V DC (Through Jacket) |

### Mechanical Characteristics

#### Temperature

| UL Rating           | Operating       |
|---------------------|-----------------|
| 150°C (UL AWM 4516) | -70°C to +150°C |

#### Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.25 in         | 2.2 in            |

|                    |        |
|--------------------|--------|
| Max. Pull Tension: | 46 lbs |
|--------------------|--------|

|                    |               |
|--------------------|---------------|
| Bulk Cable Weight: | 32 lbs/1000ft |
|--------------------|---------------|

## Standards and Compliance

|                                 |   |
|---------------------------------|---|
| Environmental Suitability:      | Indoor  |
| Sustainability:                 | CA Prop 65  |
| Flammability / Fire Resistance: | IEC 60332-1-2   |
| AWM Compliance:                 | 4516  |
| CPR Euroclass:                  | Eca   |
| European Directive Compliance:  | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:                | China RoHS II (GB/T 26572-2011)   |
| Other Standard Compliance(s):   | NEMA HP3  |

## Product Notes

|        |   |
|--------|---|
| Notes: | Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc. |
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## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.339 Revision Date: 08-25-2020 |
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