

Product: [9155](#) 

Audio & Instrumentation, 1pr 20 AWG Shielded, 2c 18 AWG, TC, CM



Product Description

1 Pair 20 AWG stranded (7x28), Beldfoil® shield; 2 conductors 18 AWG stranded (19x30) TC conductors, polyethylene insulation, 22 AWG stranded TC drain wire, CM PVC jacket.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Suitable Applications: | Low Voltage Analog Signals (4-20ma, 0-10v, ...); Low Voltage Digital Control (24v, ...); Line Level Audio; Computer Communication; Panel Wiring |
|------------------------|---|

Construction Details

Conductor

| Element | Number of Element | AWG | Stranding | Material |
|--------------|-------------------|-----|-----------|--------------------|
| Pair(s) | 1 | 20 | 7x28 | TC - Tinned Copper |
| Conductor(s) | 2 | 18 | 19x30 | TC - Tinned Copper |

Insulation

| Element | Material | Thickness [in] | Color Code |
|--------------|-------------------|----------------|--------------|
| Pair(s) | PE - Polyethylene | 0.020 | Black & Red |
| Conductor(s) | PE - Polyethylene | 0.020 | Green, White |

Inner Shield Material

| Element | Type | Material | Coverage | Drain Type |
|--------------|-----------|-------------|----------|------------------|
| Pair(s) | Tape | Alum / Poly | 100% | 22 AWG (7x30) TC |
| Conductor(s) | No Shield | | | |

Outer Jacket Material

| Material | Thickness | Diameter |
|--------------------------|-----------|----------|
| PVC - Polyvinyl Chloride | 0.031 in | 0.262 in |

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Characteristic Impedance | Nom. Velocity of Prop. | Max. Current |
|---------|--------------------|-------------------------------|---|--------------------------|------------------------|--|
| Pair(s) | 10.5 Ohm/1000ft | 24 pF/ft | 46 pF/ft | 66 Ohm | 66% | 7 Amps per Conductor at 25°C (20 AWG); 9 Amps per Conductor at 25°C (18 AWG) |
| | 6.6 Ohm/1000ft | 22 pF/ft | | | 66% | 9 Amps per conductor @ 25°C |

Voltage

| UL Voltage Rating |
|-------------------------|
| 300 V (CM, UL AWM 2094) |

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|--------------------|----------------|
| 60°C (UL AWM 2094) | -20°C to +60°C |

Bend Radius

Stationary Min.

2.75 in

Max. Pull Tension: 69.6 lbs

Bulk Cable Weight: 45 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor (Not Riser or Plenum)

Sustainability: CA Prop 65

Flammability / Fire Resistance: UL1685 UL Loading, IEC 60332-1-2

NEC / UL Compliance: Article 800, CM

AWM Compliance: 2094

CEC / C(UL) Compliance: CM

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)

History

Update and Revision: Revision Number: 0.300 Revision Date: 06-09-2020

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Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.