



Product: [9155](#)

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

Product Description

1 Pair 20 AWG stranded (7x28), Beldfoil® shield; 2 conductorsr 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      | No. of Elements | Size   | Stranding | Material           |
|--------------|-----------------|--------|-----------|--------------------|
| Pair(s)      | 1               | 20 AWG | 7x28      | TC - Tinned Copper |
| Conductor(s) | 2               | 18 AWG | 19x30     | TC - Tinned Copper |

Insulation

| Element      | Material          | Nom. Thickness     | Nom. Insulation Diameter | Color Code   |
|--------------|-------------------|--------------------|--------------------------|--------------|
| Pair(s)      | PE - Polyethylene | 0.021 in (0.53 mm) | 0.078 in (2.0 mm)        | Black & Red  |
| Conductor(s) | PE - Polyethylene | 0.021 in (0.53 mm) | 0.085 in (2.2 mm)        | Green, White |

Inner Shield

| Element      | Shield Type | Material                | Coverage | Drainwire Type   |
|--------------|-------------|-------------------------|----------|------------------|
| Pair(s)      | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (7x30) TC |
| Conductor(s) | No Shield   |                         |          |                  |

Outer Jacket

| Material                 | Nom. Thickness     | Nom. Diameter      |
|--------------------------|--------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.031 in (0.79 mm) | 0.262 in (6.65 mm) |

|                                   |                    |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.262 in (6.65 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element      | Nom. Conductor DCR         | Nom. Capacitance Cond-to-Cond | Nom. Capacitance Cond-to-Other (Conds + Shield) | Nom. Characteristic Impedence | Nom. Velocity of Prop. | Max. Current                                                                 |
|--------------|----------------------------|-------------------------------|-------------------------------------------------|-------------------------------|------------------------|------------------------------------------------------------------------------|
| Pair(s)      | 10.5 Ohm/1000ft            | 24 pF/ft (79 pF/m)            | 46 pF/ft (150 pF/m)                             | 66 Ohm                        | 66%                    | 7 Amps per Conductor at 25°C (20 AWG); 9 Amps per Conductor at 25°C (18 AWG) |
| Conductor(s) | 6.6 Ohm/1000ft (22 Ohm/km) | 22 pF/ft (72 pF/m)            |                                                 |                               | 66%                    | 9 Amps per conductor @ 25°C                                                  |

Voltage

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

Mechanical Characteristics

Temperature

| UL Temperature | Operating      |
|----------------|----------------|
| 60°C           | -20°C to +60°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 2.6 in (66 mm)  | 2.6 in (66 mm)    |

|                    |                |
|--------------------|----------------|
| Max. Pull Tension: | 70 lbs (32 kg) |
| Bulk Cable Weight: | 45 lbs/1000ft  |

Standards and Compliance

|                                  |                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor (Not Riser or Plenum), Indoor                                                                                      |
| Sustainability:                  | CA Prop 65                                                                                                                |
| Flammability / Reaction to Fire: | UL 1685 UL loading , IEC 60332-1-2                                                                                        |
| CPR Compliance:                  | CPR Euroclass: Eca                                                                                                        |
| NEC / UL Compliance:             | Article 800, CM                                                                                                           |
| AWM Compliance:                  | AWM 2094                                                                                                                  |
| CEC / C(UL) Compliance:          | CM                                                                                                                        |
| 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) |
| UK Regulation Compliance:        | UKCA Mark                                                                                                                 |
| APAC Compliance:                 | China RoHS II (GB/T 26572-2011)                                                                                           |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.509 Revision Date: 02-03-2025 |
|----------------------|--------------------------------------------------|

Part Numbers

Variants

| Item #        | Color        | Putup Type | Length   | UPC          | Footnote |
|---------------|--------------|------------|----------|--------------|----------|
| 9155 290500   | Beige, Light | Reel       | 500 ft   | 612825224846 | C        |
| 9155 2901000  | Beige, Light | Reel       | 1,000 ft | 612825224839 | C        |
| 9155 290U1000 | Beige, Light | UnReel     | 1,000 ft | 612825388142 |          |
| 9155 2905000  | Beige, Light | Reel       | 5,000 ft | 612825224815 | C        |

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