



Product: [9886](#)

Audio, Control & Instrument, #20-6pr, PO, Individ. Foil, HDPE Jkt, Direct Burial

Product Description

Audio, Control & Instrument Cable, 20 AWG stranded (10x30) tinned copper conductors, polypropylene insulation, 6 twisted pairs, individually shielded with Beldfoil® (100% coverage), 22 AWG stranded tinned copper drain wire, high-density polyethylene 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 | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 6                 | 20 AWG | 10x30     | TC - Tinned Copper |

Insulation

| Element | Material           | Nom. Thickness     | Color Code                                                                             |
|---------|--------------------|--------------------|----------------------------------------------------------------------------------------|
| Pair(s) | PP - Polypropylene | 0.013 in (0.33 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown |

Inner Shield

| Element | Shield Type | Material                | Coverage | Drainwire Type    | Notes     |
|---------|-------------|-------------------------|----------|-------------------|-----------|
| Pair(s) | Tape        | Bi-Laminate (Alum+Poly) | 100%     | 22 AWG (19x34) TC | each pair |

Outer Jacket

| Material          | Nom. Thickness    | Nom. Diameter      |
|-------------------|-------------------|--------------------|
| PE - Polyethylene | 0.045 in (1.1 mm) | 0.455 in (11.6 mm) |

|                           |                    |
|---------------------------|--------------------|
| Table Notes:              | HDPE               |
| Cable Diameter (Nominal): | 0.455 in (11.6 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) | 10.8 Ohm/1000ft (35.4 Ohm/km) | 30 pF/ft (98 pF/m)            | 55 pF/ft (180 pF/m)                             | 50 Ohm                        | 66%                    | 2.7 Amps per Conductor at 25°C |

Voltage

| Voltage Rating |
|----------------|
| 350 V          |

Mechanical Characteristics

Temperature

| Operating      |
|----------------|
| -40°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 4.6 in (120 mm) | 4.6 in (120 mm)   |

|                    |                           |
|--------------------|---------------------------|
| Max. Pull Tension: | 213 lbs                   |
| Bulk Cable Weight: | 97 lbs/1000ft (140 kg/km) |

Standards and Compliance

|                                |                                                                              |
|--------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:     | Indoor, Outdoor, Burial                                                      |
| European Directive Compliance: | EU CE Mark, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance:               | China RoHS II (GB/T 26572-2011)                                              |

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.315 Revision Date: 10-27-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9886 0101000 | Black | 612825260004 |
| 9886 010500  | Black | 612825260011 |

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