



REPRESENTATIVE IMAGE

Product: [9877](#)

Audio, Control & Instrument, #20-12pr, PO, Indiv. Foil, PVC Jkt, CM

Product Description

Audio, Control & Instrument Cable, 20 AWG stranded (7x28) tinned copper conductors, polypropylene insulation, 12 twisted pairs, individually shielded with Beldfoil® (100% coverage), 22 AWG stranded tinned copper drain wire, overall 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 | Size   | Stranding | Material           |
|---------|-------------------|--------|-----------|--------------------|
| Pair(s) | 12                | 20 AWG | 7x28      | TC - Tinned Copper |

Insulation

| Element | Material           | Nom. Thickness     | Color Code                                                                                                                                                              |
|---------|--------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pair(s) | PP - Polypropylene | 0.015 in (0.38 mm) | Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown, Black & Orange, Red & White, Red & Green, Red & Blue, Red & Yellow, Red & 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      |
|--------------------------|-------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.050 in (1.3 mm) | 0.617 in (15.7 mm) |

|                           |                    |
|---------------------------|--------------------|
| Cable Diameter (Nominal): | 0.617 in (15.7 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 (34.4 Ohm/km) | 30 pF/ft (98 pF/m)            | 55 pF/ft (180 pF/m)                             | 50 Ohm                        | 66%                    | 2 Amps per Conductor at 25°C |

Voltage

| UL Voltage Rating              |
|--------------------------------|
| 300 V (CM), 30 V (UL AWM 2919) |

Mechanical Characteristics

Temperature

| UL Temperature     | Operating      |
|--------------------|----------------|
| 80°C (UL AWM 2919) | -20°C to +80°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 6.2 in (160 mm) | 6.2 in (160 mm)   |

|                    |                            |
|--------------------|----------------------------|
| Max. Pull Tension: | 416 lbs                    |
| Bulk Cable Weight: | 195 lbs/1000ft (290 kg/km) |

Standards and Compliance

|                                  |                                                                              |
|----------------------------------|------------------------------------------------------------------------------|
| Environmental Suitability:       | Indoor                                                                       |
| Flammability / Reaction to Fire: | UL1685 UL Loading, IEC 60332-1-2                                             |
| CPR Compliance:                  | CPR Euroclass: Eca                                                           |
| NEC / UL Compliance:             | Article 800, CM                                                              |
| AWM Compliance:                  | 2919                                                                         |
| CEC / C(UL) Compliance:          | CM                                                                           |
| 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: 0.327 Revision Date: 10-27-2021 |
|----------------------|--------------------------------------------------|

Variants

| Item #       | Color  | UPC          |
|--------------|--------|--------------|
| 9877 060100  | Chrome | 612825259893 |
| 9877 0601000 | Chrome | 612825259909 |
| 9877 060500  | Chrome | 612825259916 |

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