



**Product:** [9883](#) 

Audio, Control & Instrument, #20-3pr, PO, Individ. Foil, HDPE Jkt, Direct Burial

## Product Description

Audio, Control & Instrument Cable, 20 AWG stranded (10x30) tinned copper conductors, polypropylene insulation, 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 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Pairs |
|-----|-----------|--------------------|--------------|
| 20  | 10x30     | TC - Tinned Copper | 3            |

|                  |   |
|------------------|---|
| Conductor Count: | 6 |
|------------------|---|

#### Insulation

| Material           | Nominal Wall Thickness |
|--------------------|------------------------|
| PP - Polypropylene | 0.013 in               |

#### Color Chart

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | Black & White |
| 3      | Black & Green |

#### Inner Shield Material

| Type | Material    | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil®           | 100 %        | TC - Tinned Copper | 22            | 16x34                        |

#### Outer Jacket Material

| Material          | Nominal Diameter | Nominal Wall Thickness |
|-------------------|------------------|------------------------|
| PE - Polyethylene | 0.34 in          | 0.04 in                |

|                           |      |
|---------------------------|------|
| OuterJacket1, Table Note: | HDPE |
|---------------------------|------|

### Electrical Characteristics

#### Conductor DCR

| Individual Pair Nominal Shield DCR | Nominal Conductor DCR |
|------------------------------------|-----------------------|
| 11.2 Ohm/1000ft                    | 10.8 Ohm/1000ft       |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 30 pF/ft                                | 55 pF/ft                                                |

#### Inductance

| Nominal Inductance |
|--------------------|
|--------------------|

|           |
|-----------|
| 0.2 µH/ft |
|-----------|

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 50 Ohm                           |

Delay

| Max. Delay Skew | Nominal Velocity of Propagation (VP) [%] |
|-----------------|------------------------------------------|
| 66 ns/100m      | 66 %                                     |

Current

| Max. Recommended Current [A]    |
|---------------------------------|
| 2.7 Amps per conductor @ 25°C A |

Power Rating

| Frequency [MHz] |
|-----------------|
| 20 MHz          |

Voltage

| Non-UL Voltage Rating |
|-----------------------|
| 350 V RMS             |

Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -40°C To +80°C |
|-----------------------|----------------|

Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 50 lbs/1000ft |
| Max Recommended Pulling Tension: | 78 lbs        |
| Min Bend Radius/Minor Axis:      | 3.5 in        |
| Connector/Hardware Retention:    | 20 lbs        |

Standards

|                |     |
|----------------|-----|
| CPR Euroclass: | Fca |
|----------------|-----|

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Burial: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9883 0101000 | Black | 612825259978 |
| 9883 010500  | Black | 612825259985 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.317 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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