

## 9773 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) TC conductors, polypropylene insulation, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 20 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 3       | 18  | 19x30     | TC - Tinned Copper |

Total Number of Conductors: 6

#### Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene  | 0.483               |

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®)     | Tape | Aluminum Foil-Polyester Tape | 100          |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 20  |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.889                    |

#### Overall Cable

Overall Nominal Diameter: 10.262 mm

#### Pair

Pair Color Code Chart:

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

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +80°C

UL Temperature Rating: 80°C (UL AWM Style 2919)

Bulk Cable Weight: 125.009 Kg/Km

Max. Recommended Pulling Tension: 787.331 N

Min. Bend Radius/Minor Axis: 107.950 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

NEC Articles: 800

CEC/C(UL) Specification: CM

AWM Specification: UL Style 2919 (30 V 80°C)

## METRIC MEASUREMENT VERSION

### 9773 Multi-Conductor - Audio, Control and Instrumentation Cable

|                                       |            |
|---------------------------------------|------------|
| EU Directive 2011/65/EU (ROHS II):    | Yes        |
| EU CE Mark:                           | Yes        |
| EU Directive 2000/53/EC (ELV):        | Yes        |
| EU Directive 2002/95/EC (RoHS):       | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |
| MII Order #39 (China RoHS):           | Yes        |

#### Flame Test

|                 |                   |
|-----------------|-------------------|
| UL Flame Test:  | UL1685 UL Loading |
| CSA Flame Test: | FT1               |

#### Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)  
50

#### Nom. Inductance:

Inductance (µH/m)  
0.59058

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
98.43

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)  
180.455

#### Nominal Velocity of Propagation:

VP (%)  
66

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
20.9984

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 27.232 Ohm/km

#### Max. Operating Voltage - UL:

| Voltage   | Description    |
|-----------|----------------|
| 30 V RMS  | AWM Style 2919 |
| 300 V RMS | CM             |

#### Max. Recommended Current:

| Description          | Current                               |
|----------------------|---------------------------------------|
| 10C Temperature Rise | 3.6 Amps per conductor @ 25°C ambient |

### Put Ups and Colors:

| Item #       | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|--------------|----------|-------------|--------|-------|--------------------|
| 9773 060100  | 100 FT   | 9.400 LB    | CHROME |       | 3 FS PR #18 PP PVC |
| 9773 0601000 | 1,000 FT | 93.000 LB   | CHROME | C     | 3 FS PR #18 PP PVC |
| 9773 060500  | 500 FT   | 45.500 LB   | CHROME | C     | 3 FS PR #18 PP PVC |
| 9773 0605000 | 5,000 FT | 485.000 LB  | CHROME | C     | 3 FS PR #18 PP PVC |

#### Notes:

C = CRATE REEL PUT-UP.

## 9773 Multi-Conductor - Audio, Control and Instrumentation Cable

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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](mailto:org@eplast1.ru)

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