

## 8780 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1

**General Description:**

16 AWG stranded (19x29) tinned copper conductors, PVC insulation, twisted pair, tinned copper spiral wrapped shield (85% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 16  | 19x29     | TC - Tinned Copper | .059       |

Total Number of Conductors:

2

**Insulation**

Insulation Material:

| Insulation Material      | Dia. (in.) |
|--------------------------|------------|
| PVC - Polyvinyl Chloride | 0.105      |

**Outer Shield**

Outer Shield Material:

| Type         | Outer Shield Material | Coverage (%) |
|--------------|-----------------------|--------------|
| Spiral Serve | TC - Tinned Copper    | 85           |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter:

0.280 in.

**Pair**

Pair Color Code Chart:

| Color           |
|-----------------|
| Black and White |

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -20°C To +60°C  |
| UL Temperature Rating:            | 60°C            |
| Bulk Cable Weight:                | 42 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 61 lbs.         |
| Min. Bend Radius/Minor Axis:      | 3 in.           |

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMG        |
| CEC/C(UL) Specification:              | CMG        |
| 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): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE):       | Yes        |
| EU Directive 2003/11/EC (BFR):        | Yes        |
| CA Prop 65 (CJ for Wire & Cable):     | Yes        |

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MII Order #39 (China RoHS): Yes

## Flame Test

CSA Flame Test: FT4

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Characteristic Impedance:

Impedance (Ohm)

37

## Nom. Inductance:

Inductance (µH/ft)

0.18

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

57

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

Capacitance (pF/ft)

98

## Nominal Velocity of Propagation:

VP (%)

65

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.75

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

19

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

7.1 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc             |
|---------------|----------|-------------|--------|-------|-----------------------|
| 8780 060U1000 | 1,000 FT | 44.000 LB   | CHROME |       | 1 PR #16 PVC SHLD PVC |
| 8780 0601000  | 1,000 FT | 46.000 LB   | CHROME | C     | 1 PR #16 PVC SHLD PVC |
| 8780 060500   | 500 FT   | 23.000 LB   | CHROME | C     | 1 PR #16 PVC SHLD PVC |
| 8780 0605000  | 5,000 FT | 225.000 LB  | CHROME |       | 1 PR #16 PVC SHLD PVC |

## Notes:

C = CRATE REEL PUT-UP.

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