

## 8780 Multi-Conductor - Single-Pair Cable

For more Information  
please call

1-800-Belden1

**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      | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .023                 |

**Outer Shield****Outer Shield Material:**

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

**Outer Jacket****Outer Jacket Material:**

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .030                      |

**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 CE Mark:                    | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |

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|                                 |     |
|---------------------------------|-----|
| 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 |
|-----------------------------------|-----|

|                             |     |
|-----------------------------|-----|
| 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 & 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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