

## 8787 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

24 and 22 AWG stranded (7x32 and 7x30) TC conductors, PVC insulation (22 AWG) / polyethylene insulation (24 AWG), cabled in quads, 24 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 8            | 24  | 7x32      | TC - Tinned Copper |
| 2            | 22  | 7x30      | TC - Tinned Copper |

Total Number of Conductors: 10

**Insulation****Insulation Material:**

| Insulation Material      | Wall Thickness (in.) | AWG |
|--------------------------|----------------------|-----|
| PE - Polyethylene        | .012                 | 24  |
| PVC - Polyvinyl Chloride | .015                 | 22  |

Insulation Resistance: 100 Megaohms/1000 ft. @ 500 V DC

**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 Material (Multi-AWG):**

| AWG | Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) | Description |
|-----|-------------------------|------|------------------------------|--------------|-------------|
| 24  | Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          | Over Quad   |
| 24  | Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          | Over Quad   |
| 22  |                         |      | Unshielded                   |              | Singles     |

**Inner Shield Drain Wire AWG:**

| AWG |
|-----|
| 24  |

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Shield Waterblocking Tape: Gray, White, Blue, Green; Brown, Red, Yellow, Orange; White, Blue

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

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

**Overall Cable****Overall Cabling Color Code Chart:**

| Number | Color      | AWG | Group/Cond. Color |
|--------|------------|-----|-------------------|
| 1      | Red Quad   | 24  | Red Quad          |
| 2      | White      | 22  | White             |
| 3      | Green Quad | 24  | Green Quad        |
| 4      | Blue       | 22  | Blue              |

## 8787 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

Overall Nominal Diameter: 0.290 in.

**Mechanical Characteristics (Overall)**

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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 45 lbs/1000 ft.

Max. Recommended Pulling Tension: 62.200 lbs.

Min. Bend Radius/Minor Axis: 3 in.

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

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

MII Order #39 (China RoHS): Yes

**Flame Test**

UL Flame Test: VW-1, UL1685 UL Loading

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)****Nom. Conductor DC Resistance:**

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 24 AWG      | 23.9                     |
| 22 AWG      | 15                       |

**Nom. Inner Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5                        |

**Max. Operating Voltage - Non-UL:**

| Voltage   |
|-----------|
| 350 V RMS |

**Max. Recommended Current:**

| Current                                                                        |
|--------------------------------------------------------------------------------|
| 1.5 Amps per conductor @ 25°C (24 AWG); 2.0 Amps per conductor @ 25°C (22 AWG) |

**Notes (Overall)**

**Notes:** Inner Beldfoil® shield over 24 AWG quads. Each quad wrapped in transparent polyester tape. Red Beldfoil® shield over one quad, Green Beldfoil® shield over the other. (2) quads and (2) unshielded conductors cabled.

**Put Ups and Colors:**

| Item #       | Putup  | Ship Weight | Color  | Notes | Item Desc           |
|--------------|--------|-------------|--------|-------|---------------------|
| 8787 060U500 | 500 FT | 24.000 LB   | CHROME |       | 2 #22, 8 #24 FS PVC |
| 8787 060500  | 500 FT | 24.000 LB   | CHROME | C     | 2 #22, 8 #24 FS PVC |

**Notes:**

C = CRATE REEL PUT-UP.

## 8787 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

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