

## 8434 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**Description:**

25 AWG stranded (7x33) tinned copper conductors, polyethylene insulation, overall Beldfoil® shield (100% coverage), 25 AWG stranded TC drain wire, PVC jacket.

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

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2       | 25  | 7x33      | TC - Tinned Copper |

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

| Insulation Material | Wall Thickness (mm) | Dia. (mm) |
|---------------------|---------------------|-----------|
| PE - Polyethylene   | 0.3302              | 1.1938    |

**Inner Shield****Inner Shield Material:**

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

**Inner Shield Drain Wire AWG:**

| AWG |
|-----|
| 25  |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

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

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

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

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.508                    |

**Overall Cabling**

Overall Nominal Diameter: 4.191 mm

**Pair****Pair Color Code Chart:**

| Number | Color                     |
|--------|---------------------------|
| 1      | Shielded: Red & Black     |
| 2      | Unshielded: Green & White |

**Pair Lay Length & Direction:**

| Lay Length (mm) | Twists/ft. (twist/m) |
|-----------------|----------------------|
| 38.09985        | 26.248               |

**Mechanical Characteristics (Overall)**

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

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|                                        |              |
|----------------------------------------|--------------|
| Non-UL Temperature Rating:             | 80°C         |
| Bulk Cable Weight:                     | 20.240 Kg/Km |
| Max. Recommended Pulling Tension:      | 182.376 N    |
| Min. Bend Radius (Install)/Minor Axis: | 43.180 mm    |

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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): | 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        |

## Plenum/Non-Plenum

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

## Electrical Characteristics (Overall)

## Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.6562            |

## Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 82.025             |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 131.24             |

## Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 149.286             |

|                                                     |               |
|-----------------------------------------------------|---------------|
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: | 62.011 Ohm/km |
|-----------------------------------------------------|---------------|

## Max. Operating Voltage - Non-UL:

|           |
|-----------|
| Voltage   |
| 400 V RMS |

## Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 1.3 Amps per conductor @ 25°C |

## Notes (Overall)

**Notes:** Red and Black pair 100% Beldfoil® shielded with drain wire. 3 copper, 4 copper-covered steel strands in each conductor.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color  | Notes | Item Desc       |
|---------------|--------|-------------|--------|-------|-----------------|
| 8434 060U1000 | 305 MT | 6.350 KG    | CHROME |       | 4 #25 PE SH PVC |
| 8434 060100   | 30 MT  | 0.907 KG    | CHROME |       | 4 #25 PE SH PVC |

## METRIC MEASUREMENT VERSION

**8434 Multi-Conductor - Special Audio, Communication and Instrumentation Cable**

|              |        |          |        |   |                 |
|--------------|--------|----------|--------|---|-----------------|
| 8434 0601000 | 305 MT | 5.443 KG | CHROME | C | 4 #25 PE SH PVC |
| 8434 060500  | 152 MT | 3.175 KG | CHROME |   | 4 #25 PE SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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