



**Part Number:** 8434

Audio/Control/Instrumentation, (2 pr) 25 AWG (7x33)  
TC+TC covered Steel, PE/PVC, Foil Shld

## Product Description

Two 25 AWG pair stranded (7x33) tinned copper/tinned copper covered steel conductors, polyethylene insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| AWG                                | Stranding | Material  | No. of Pairs |
|------------------------------------|-----------|---|--------------|
| 25                                 | 7x33      | 3 strands tinned copper &#43; 4 strands tinned copper covered steel | 2            |
| <b>Total Number of Conductors:</b> |           |   | 4            |

#### Insulation:

| Material          | Nominal Wall Thickness |
|-------------------|------------------------|
| PE - Polyethylene | 0.015 in               |

#### Color Chart 1:

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

#### Innershield:

| Type | Material   | Material Trade Name | Coverage [%] |
|------|--|---------------------|--------------|
| Tape | Aluminum Foil-Polyester Tape w/Shorting Fold (foil side out) | Beldfoil®           | 100 %        |

#### Outershield 1:

| Type | Material                                    | Material Trade Name | Coverage [%] | Drainwire Material  | Drainwire AWG | Drainwire Construction n x D |
|------|---|---------------------|--------------|---|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape (foil side in) | Beldfoil®           | 100 %        | 3 strands tinned copper &#43; 4 strands tinned copper covered steel | 25            | 7 x 33 awg mm                |

#### Outerjacket 1:

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.165 in         | 0.02 in                |

## Electrical Characteristics

#### Conductor DCR:

| Individual Pair Nominal Shield DCR | Nominal Conductor DCR |
|------------------------------------|-----------------------|
| 18.9 Ohm/1000ft                    | 45.5 Ohm/1000ft       |

#### Capacitance:

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 25 pF/ft                                | 40 pF/ft  |

#### Current:

| Max. Recommended Current [A]  |
|-------------------------------|
| 1.3 Amps per conductor @ 25°C |

#### Inductance:

| Nominal Inductance |
|--------------------|
| 0.2 µH/ft          |

#### Voltage:

| Non-UL Voltage Rating |
|-----------------------|
| 400 V RMS             |

## Use

|                                  |        |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 41 lbs |
|----------------------------------|--------|

## Safety

## Temperature Range

|                              |                |
|------------------------------|----------------|
| <b>Non-UL Temp Rating:</b>   | 80°C           |
| <b>Operating Temp Range:</b> | -20°C To +80°C |

## Mechanical Characteristics

|                                    |         |
|------------------------------------|---------|
| <b>Min Bend Radius/Minor Axis:</b> | 1.75 in |
|------------------------------------|---------|

## Part Number

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

## Standards

|  |                                  |
|--|----------------------------------|
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | CA Prop 65 (CJ for Wire & Cable) |
| <b>MII Order #39 (China RoHS):</b>           | MII Order #39 (China RoHS)       |
| <b>EU Directive Compliance:</b>              | EU Directive 2003/11/EC (BFR)    |
| <b>EU CE Mark:</b>                           | EU CE Mark                       |

## History

|               |  |
|---------------|--|
| <b>Notes:</b> | Red and Black pair 100% Beldfoil® shielded (foil side out in contact with drain wire). 3 copper, 4 copper-covered steel strands in each conductor. |
|---------------|--|

## Product Variants

| Part Number   | Color  | Put-Up Type | Length  |
|---------------|--------|-------------|---------|
| 8434 0601000  | CHROME | Reel        | 1000 ft |
| 8434 060100   | CHROME | Reel        | 100 ft  |
| 8434 060500   | CHROME | Reel        | 500 ft  |
| 8434 060U1000 | CHROME | UnReel      | 1000 ft |

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