

## 8728 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded (7x30) TC conductors, polypropylene insulation, cabled in pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded TC drain wires, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 2       | 22  | 7x30      | TC - Tinned Copper | 0.762     |

#### Insulation

##### Insulation Material:

| Insulation Material | Wall Thickness (mm) | Dia. (mm) |
|---------------------|---------------------|-----------|
| PP - Polypropylene  | 0.254               | 1.27      |

#### Inner Shield

##### Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|---------|-------------------------|------|------------------------------|--------------|
| Layer 1 | Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |
| Layer 2 |                         | Tape | Polyester Tape               | 100          |

##### Inner Shield Drain Wire AWG:

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

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 Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 24  | Stranded  | TC - Tinned Copper            |

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.7112                   |

#### Overall Cabling

Overall Nominal Diameter: 5.461 mm

#### Pair

##### Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & Red   |
| 2      | White & Green |

##### Pair Lay Length & Direction:

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

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|           |        |
|-----------|--------|
| 31.749875 | 31.498 |
|-----------|--------|

### Mechanical Characteristics (Overall)

|  |                          |
|--|--------------------------|
| Operating Temperature Range:           | -20°C To +80°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 2717) |
| Bulk Cable Weight:                     | 41.670 Kg/Km             |
| Max. Recommended Pulling Tension:      | 161.914 N                |
| Min. Bend Radius (Install)/Minor Axis: | 31.750 mm                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CM                         |
| NEC Articles:                         | 800                        |
| CEC/C(UL) Specification:              | CM                         |
| AWM Specification:                    | UL Style 2717 (300 V 80°C) |
| 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                        |

#### Flame Test

|                |                   |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 50              |

#### Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.59058           |

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 114.835            |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 203.422            |

#### Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 66     |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 55.777              |

METRIC MEASUREMENT VERSION

## 8728 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 54.465 Ohm/km

### Max. Operating Voltage - UL:

| Voltage                       |
|-------------------------------|
| 300 V RMS (UL AWM Style 2717) |

### Max. Recommended Current:

| Current                       |
|-------------------------------|
| 2.3 Amps per conductor @ 25°C |

### Notes (Overall)

**Notes:** Each pair Beldfoil® shielded with individual drain wire plus a polyester film over each shield.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color  | Notes | Item Desc         |
|---------------|--------|-------------|--------|-------|-------------------|
| 8728 060U1000 | 305 MT | 13.608 KG   | CHROME |       | 2 #22 SHPR PP PVC |
| 8728 060U500  | 152 MT | 7.031 KG    | CHROME |       | 2#22 SHPR PP PVC  |
| 8728 0601000  | 305 MT | 14.061 KG   | CHROME | C     | 2 #22 SHPR PP PVC |
| 8728 060500   | 152 MT | 7.031 KG    | CHROME | C     | 2#22 SHPR PP PVC  |

**Notes:**  
C = CRATE REEL PUT-UP.

Revision Number: 1    Revision Date: 04-16-2008

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