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1-800-Belden1



### General Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PE - Polyethylene   | 0.432               |

#### 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  | 7x32      | TC - Tinned Copper            |

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.635                    |

#### Overall Cable

Overall Nominal Diameter: 4.267 mm

#### Pair

##### Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & Clear |

### Mechanical Characteristics (Overall)

|                                   |                          |
|-----------------------------------|--------------------------|
| Operating Temperature Range:      | -20°C To +80°C           |
| UL Temperature Rating:            | 60°C (UL AWM Style 2092) |
| Bulk Cable Weight:                | 17.858 Kg/Km             |
| Max. Recommended Pulling Tension: | 48.930 N                 |
| Min. Bend Radius/Minor Axis:      | 44.450 mm                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

|                                       |                            |
|---------------------------------------|----------------------------|
| CEC/C(UL) Specification:              | CM                         |
| AWM Specification:                    | UL Style 2092 (300 V 60°C) |
| EU Directive 2011/65/EU (ROHS II):    | Yes                        |
| 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           |
| Plenum Number: | 88641, 82641 |

## Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 80              |

#### Nom. Inductance:

|                   |
|-------------------|
| Inductance (µH/m) |
| 0.72182           |

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 72.182             |

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

|                    |
|--------------------|
| Capacitance (pF/m) |
| 137.802            |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 82.025              |

#### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 47.9026             |

#### Max. Operating Voltage - UL:

|                               |
|-------------------------------|
| Voltage                       |
| 300 V RMS (UL AWM Style 2092) |

#### Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 2.2 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc          |
|---------------|----------|-------------|--------|-------|--------------------|
| 8641 060U1000 | 1,000 FT | 14.000 LB   | CHROME |       | 1 #24 FS PR PE PVC |
| 8641 060U500  | 500 FT   | 7.500 LB    | CHROME |       | 1 #24 FS PR PE PVC |
| 8641 060100   | 100 FT   | 2.000 LB    | CHROME |       | 1 #24 FS PR PE PVC |
| 8641 0601000  | 1,000 FT | 14.000 LB   | CHROME | C     | 1 #24 FS PR PE PVC |

## METRIC MEASUREMENT VERSION

### 8641 Multi-Conductor - Single-Pair Cable

|              |          |           |        |  |                    |
|--------------|----------|-----------|--------|--|--------------------|
| 8641 060500  | 500 FT   | 7.000 LB  | CHROME |  | 1 #24 FS PR PE PVC |
| 8641 0605000 | 5,000 FT | 65.000 LB | CHROME |  | 1 #24 FS PR PE PVC |

**Notes:**

C = CRATE REEL PUT-UP.

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