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1-800-Belden1



### General Description:

24 AWG stranded (7x32) TC conductor, plenum, foam FEP insulation, twisted pairs, individually shielded w/Beldfoil (100% coverage), 24 AWG stranded TC drain wire, overall fluorocopolymer jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 7       | 24  | 7x32      | TC - Tinned Copper | .024       |

Total Number of Conductors: 14

#### Insulation

Insulation Material:

| Insulation Material                        | Wall Thickness (in.) |
|--|----------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.019                |

#### Inner Shield

Inner Shield Material:

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

Inner Shield Color Code Chart:

| Number | AWG | Color |
|--------|-----|-------|
| 1      | 24  | Red   |
| 2      | 24  | Red   |
| 3      | 24  | Green |
| 4      | 24  | Blue  |
| 5      | 24  | Blue  |
| 6      | 24  | Blue  |
| 7      | 24  | Blue  |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material  | Nom. Wall Thickness (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | 0.014                     |

#### Overall Cable

Overall Nominal Diameter: 0.361 in.

#### Pair

Pair Color Code Chart:

| Number | Color                       |
|--------|-----------------------------|
| 1      | White/Blue & Blue/White     |
| 2      | White/Orange & Orange/White |
| 3      | White/Green & Green/White   |
| 4      | White/Brown & Brown/White   |
| 5      | White/Gray & Gray/White     |
| 6      | Red/Blue & Blue/Red         |
| 7      | Red/Orange & Orange/Red     |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +150°C

Bulk Cable Weight: 71 lbs/1000 ft.

|                                   |           |
|-----------------------------------|-----------|
| Max. Recommended Pulling Tension: | 116 lbs.  |
| Min. Bend Radius/Minor Axis:      | 3.750 in. |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMP        |
| CEC/C(UL) Specification:              | CMP        |
| 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): | 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:  | NFPA 262 |
| CSA Flame Test: | FT6      |

#### Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

|                 |
|-----------------|
| Impedance (Ohm) |
| 100             |

#### Nom. Inductance:

|                    |
|--------------------|
| Inductance (µH/ft) |
| .24                |

#### Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 13.5                |

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

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 22.5                |

#### Nominal Velocity of Propagation:

|        |
|--------|
| VP (%) |
| 76     |

#### Nominal Delay:

|               |
|---------------|
| Delay (ns/ft) |
| 1.3           |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 24                       |

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 14.400 Ohm/1000 ft

#### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| .384        | .74                      |
| .7056       | .87                      |
| .768        | .89                      |
| 1.024       | .95                      |
| 1.4112      | 1.03                     |
| 1.536       | 1.06                     |
| 2.048       | 1.17                     |
| 2.8224      | 1.37                     |
| 3.072       | 1.44                     |
| 4.096       | 1.67                     |
| 5.6448      | 1.89                     |

|         |      |
|---------|------|
| 6.144   | 1.96 |
| 8.192   | 2.26 |
| 11.2896 | 2.59 |
| 12.288  | 2.71 |
| 24.576  | 3.73 |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

**Max. Recommended Current:**

|                               |
|-------------------------------|
| <b>Current</b>                |
| 2.0 Amps per conductor @ 25°C |

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc            |
|---------------|----------|-------------|-------|-------|----------------------|
| 89757 0081000 | 1,000 FT | 80.000 LB   | GRAY  | C     | 7 #24 FS PR FFEP SLF |
| 89757 008500  | 500 FT   | 39.500 LB   | GRAY  | C     | 7 #24 FS PR FFEP SLF |

**Notes:**

C = CRATE REEL PUT-UP.

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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