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1-800-Belden1



### Description:

18 AWG stranded (7x26) tinned copper conductors, flame-retardant polyolefin insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), sunlight resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (in.) |
|---------|-----|-----------|--------------------|------------|
| 1       | 18  | 7x26      | TC - Tinned Copper | .046       |

#### Insulation

##### Insulation Material:

| Insulation Material               | Dia. (in.) |
|-----------------------------------|------------|
| FRPO - Flame Retardant Polyolefin | .123       |

#### Outer Shield

##### Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape | 100          |
| 2       |                         | Braid | TC - Tinned Copper           | 55           |

##### Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20  | 7x28      | TC - Tinned Copper            |

Outer Shield Drain Wire Diameter: .038

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cable

Overall Nominal Diameter: 0.388 in.

#### Pair

##### Pair Color Code Chart:

| Number | Color   |
|--------|---------|
| 1      | Natural |
| 2      | Blue    |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C Dry

Bulk Cable Weight: 61 lbs/1000 ft.

Max. Recommended Pulling Tension: 90 lbs.

Min. Bend Radius (Install)/Minor Axis: 4 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                    |
|---------------------------------------|--------------------|
| NEC/(UL) Specification:               | CMG, PLTC, ITC, TC |
| CEC/C(UL) Specification:              | CMG                |
| 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): | 10/13/2005         |
| 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:    | UL1685 FT4 Loading |
| C(UL) Flame Test: | FT1, FT4           |

### Suitability

|                      |     |
|----------------------|-----|
| Sunlight Resistance: | Yes |
|----------------------|-----|

### Plenum/Non-Plenum

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

## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nominal Input Impedance:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Impedance (Ohm) |
|-------------|-------------|-------------------|------------------|-----------------|
|             | 1           |                   |                  | 100             |

### Nom. Inductance:

|                    |     |
|--------------------|-----|
| Inductance (µH/ft) | .15 |
|--------------------|-----|

### Nom. Mutual Capacitance:

|                     |      |
|---------------------|------|
| Capacitance (pF/ft) | 15.3 |
|---------------------|------|

### Nominal Velocity of Propagation:

|        |      |
|--------|------|
| VP (%) | 64.5 |
|--------|------|

### Nominal Delay:

|               |      |
|---------------|------|
| Delay (ns/ft) | 1.58 |
|---------------|------|

### Nom. Conductor DC Resistance:

|                          |     |
|--------------------------|-----|
| DCR @ 20°C (Ohm/1000 ft) | 6.9 |
|--------------------------|-----|

### Nominal Outer Shield DC Resistance:

|                          |     |
|--------------------------|-----|
| DCR @ 20°C (Ohm/1000 ft) | 2.9 |
|--------------------------|-----|

### Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .41                      |
| 10          | 1.33                     |
| 50          | 2.97                     |

|     |      |
|-----|------|
| 100 | 4.20 |
| 200 | 5.95 |
| 400 | 7.52 |

**Max. Operating Voltage - UL:**

|                         |
|-------------------------|
| <b>Voltage</b>          |
| 600 V RMS (NEC Type TC) |

### Notes (Overall)

**Notes:** CPE Jacket Optional.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc             |
|---------------|----------|-------------|-------------|-------|-----------------------|
| 3073F C551000 | 1,000 FT | 85.000 LB   | BLUE, CAIRO | C     | #18 FS PR FRPP SH PVC |
| 3073F C555000 | 5,000 FT | 420.000 LB  | BLUE, CAIRO | C N   | #18 FS PR FRPP SH PVC |

**Notes:**

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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