# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



## 5401FE Multi-Conductor - Commercial Audio Systems



For more Information please call

1-800-Belden1



## **Description:**

20 AWG bare copper conductors, PP insulation, conductors cabled, Beldfoil® shield tape (foil side out) with drain wire, PVC jacket with ripcord, sequential footage marking every two feet.

## **Usage (Overall)**

Suitable Applications:

Intercom/PA Systems, Sound/Audio Systems

## **Physical Characteristics (Overall)**

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3            | 20  | 7x28      | BC - Bare Copper   |

#### Insulation

**Insulation Material:** 



#### **Outer Shield**

**Outer Shield Material:** 

| Outer Shield Trade Name |           | Type | Outer Shield Material                        | Coverage (%) |
|-------------------------|-----------|------|--|--------------|
|                         | Beldfoil® | Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | 100          |

#### Outer Shield Drain Wire AWG:

|    | Stranding | <b>Drain Wire Conductor Material</b> |  |
|----|-----------|--------------------------------------|--|
| 24 | 7x32      | TC - Tinned Copper                   |  |

#### **Outer Jacket**

**Outer Jacket Material:** 

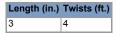
| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.017                     |

Outer Jacket Ripcord:

Yes

## **Overall Cabling**

**Overall Cabling Lay Length & Direction:** 



## **Overall Cabling Color Code Chart:**

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |
| 3      | White |

Overall Nominal Diameter: 0.145 in.

# Mechanical Characteristics (Overall)

| ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                     |  |  |
|---|---------------------|--|--|
| Operating Temperature Range:            | -20°C To +75°C      |  |  |
| UL Temperature Rating:                  | 75°C                |  |  |
| Bulk Cable Weight:                      | 19.200 lbs/1000 ft. |  |  |

Page 1 of 3 09-01-2011

# **Detailed Specifications & Technical Data**





## 5401FE Multi-Conductor - Commercial Audio Systems

| Max. Recommended Pulling Tensi                            | on: 46.900 lbs.       |  |  |  |
|---|-----------------------|--|--|--|
| Min. Bend Radius (Install)/Minor A                        | <b>xis:</b> 1.500 in. |  |  |  |
| Applicable Specifications and Agency Compliance (Overall) |                       |  |  |  |
| Applicable Standards & Environme                          | ental Programs        |  |  |  |
| NEC/(UL) Specification:                                   | CMR                   |  |  |  |
| NEC Articles:   | 800                   |  |  |  |
| CEC/C(UL) Specification:                                  | CMG                   |  |  |  |
| EU CE Mark:   | Yes                   |  |  |  |
| EU Directive 2000/53/EC (ELV):                            | Yes                   |  |  |  |
| EU Directive 2002/95/EC (RoHS):                           | Yes                   |  |  |  |

Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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: UL1666 Vertical Shaft** 

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 6401FE

## **Surface Printing (Overall)**

## **Electrical Characteristics (Overall)**

EU Directive 2002/96/EC (WEEE):

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft) 50.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft) 90.000

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

**Nominal Outer Shield DC Resistance:** 

DCR @ 20°C (Ohm/1000 ft) 16.100

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current 3.75 Amps per conductor @ 25°C (10°C rise in temp)

### **Related Documents:**

## **Detailed Specifications & Technical Data**





### 5401FE Multi-Conductor - Commercial Audio Systems

No related documents are available for this product

#### **Put Ups and Colors:**

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc         |
|-----------------|----------|-------------|-------|-------|-------------------|
| 5401FE 008U1000 | 1,000 FT | 19.000 LB   | GRAY  |       | 3 #20 PP FS FRPVC |
| 5401FE 008U500  | 500 FT   | 10.000 LB   | GRAY  |       | 3 #20 PP FS FRPVC |
| 5401FE 0081000  | 1,000 FT | 19.000 LB   | GRAY  | С     | 3 #20 PP FS FRPVC |
| 5401FE 008500   | 500 FT   | 9.500 LB    | GRAY  |       | 3 #20 PP FS FRPVC |

Notes:

C = CRATE REEL PUT-UP.

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