

## 88105 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications



For more Information  
please call

1-800-Belden1

**General Description:**

24 AWG stranded (7x32) tinned copper conductors, plenum, foam FEP insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, fluorocopolymer jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 5       | 24  | 7x32      | TC - Tinned Copper |

Total Number of Conductors: 10

**Insulation**

Insulation Material:

| Insulation Material                        | Wall Thickness (in.) |
|--------------------------------------------|----------------------|
| FFEP - Foam Fluorinated Ethylene Propylene | 0.015                |

**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 (in.) |
|------------------------|---------------------------|
| PVDF - Fluorocopolymer | 0.014                     |

**Overall Cable**

Overall Nominal Diameter: 0.267 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     |

**Mechanical Characteristics (Overall)**

|                                   |                 |
|-----------------------------------|-----------------|
| Operating Temperature Range:      | -20°C To +150°C |
| Bulk Cable Weight:                | 40 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 60 lbs.         |
| Min. Bend Radius/Minor Axis:      | 2.750 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 |

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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 &amp; Cable): Yes

MIL 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)

0.21

## Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.95

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

Capacitance (pF/ft)

23.3

## Nominal Velocity of Propagation:

VP (%)

78

## Nominal Delay:

Delay (ns/ft)

1.3

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

14

## Max. Operating Voltage - UL:

Voltage

300 V RMS

## Max. Recommended Current:

Current

1.54 Amps per conductor @ 25°C

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc        |
|---------------|----------|-------------|-------|-------|------------------|
| 88105 0081000 | 1,000 FT | 44.000 LB   | GRAY  | C     | 5#24 PR FS SOLEF |
| 88105 008500  | 500 FT   | 23.500 LB   | GRAY  | C     | 5#24 PR FS SOLEF |

## Notes:

C = CRATE REEL PUT-UP.

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## 88105 Multi-Conductor - Low Cap. Computer Cable for EIA RS-232/422/485 Applications

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).



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