

## 1033A Multi-Conductor - 300V Power-Limited Tray Cable



For more Information  
please call

1-800-Belden1



### General Description:

20 AWG pairs stranded (7x28) bare copper conductors, twisted pairs, PVC insulation, overall Beldfoil shield (100% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1       | 20  | 7x28      | BC - Bare Copper   |

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.381               |

#### 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 |
|-----|-----------|-------------------------------|
| 22  | 7x30      | TC - Tinned Copper            |

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.9398                   |

Outer Jacket Ripcord: Yes

#### Overall Cable

##### Overall Cabling Lay Length & Direction:

| Direction     |
|---------------|
| Left-hand Lay |

Overall Nominal Diameter: 5.334 mm

#### Pair

##### Pair Color Code Chart:

| Number | Color         |
|--------|---------------|
| 1      | Black & White |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight: 43.158 Kg/Km

Max. Recommended Pulling Tension: 71.171 N

Min. Bend Radius/Minor Axis: 53.340 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                            |
|---------------------------------------|----------------------------|
| NEC/(UL) Specification:               | CMG, ITC, PLTC             |
| CEC/C(UL) Specification:              | CMG                        |
| AWM Specification:                    | UL Style 2464 (300 V 80°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): | 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:    | UL1685 FT4 Loading |
| C(UL) Flame Test: | FT4                |
| IEEE Flame Test:  | 1202               |

#### Suitability

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | Yes |
| Sunlight Resistance:   | Yes |

#### Plenum/Non-Plenum

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

### Surface Printing (Overall)

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Shield:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 180.455            |

#### Nom. Capacitance Conductor to Conductor:

|                    |
|--------------------|
| Capacitance (pF/m) |
| 98.43              |

#### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 31.1695             |

#### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 124.678             |

#### Max. Operating Voltage - UL:

|                  |
|------------------|
| Voltage          |
| 300 V RMS (PLTC) |
| CMG)             |
| 150 V RMS (ITC)  |

### Put Ups and Colors:

METRIC MEASUREMENT VERSION

## 1033A Multi-Conductor - 300V Power-Limited Tray Cable

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc        |
|---------------|----------|-------------|-------|-------|------------------|
| 1033A 0101000 | 305 MT   | 13.608 KG   | BLACK | C     | 2 #20 PVC FS PVC |
| 1033A 0101000 | 3,048 MT | 122.471 KG  | BLACK | C Z   | 2 #20 PVC FS PVC |

**Notes:**

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 2    Revision Date: 07-30-2012

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