

METRIC MEASUREMENT VERSION



## 3087A Multi-Conductor - DeviceBus® for Honeywell Smart Distributed System

For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (data), each pair individually Beldfoil® shielded (100% coverage), PVC jacket

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 2       | 22  | 19x34     | TC - Tinned Copper | 0.762     |

Total Number of Conductors: 4

#### Insulation

Insulation Material:

| Insulation Material      | AWG                 |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 22 AWG (Power Pair) |
| FPE - Foam Polyethylene  | 22 AWG (Data Pair)  |

Insulation Resistance: 10000 Mega-Ohm

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire         | Conductor Material |
|-----|-----------|--------------------|--------------------|
| 22  | 19x34     | TC - Tinned Copper |                    |

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cable

Overall Nominal Diameter: 7.366 mm

#### Pair

Pair Color Code Chart:

| Number         | Color         |
|----------------|---------------|
| 1 (Power Pair) | Brown & Blue  |
| 2 (Data Pair)  | Black & White |

Pair Lay Length & Direction:

| Lay Length (mm) |
|-----------------|
| 50.8            |

### Mechanical Characteristics (Overall)

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|                                   |                          |
|-----------------------------------|--------------------------|
| Storage Temperature Range:        | -40°C To +80°C           |
| Operating Temperature Range:      | -30°C To +80°C           |
| UL Temperature Rating:            | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight:                | 49.111 Kg/Km             |
| Max. Recommended Pulling Tension: | 211.290 N                |
| Min. Bend Radius/Minor Axis:      | 73.660 mm                |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |                                    |
|---------------------------------------|------------------------------------|
| NEC/(UL) Specification:               | CL2                                |
| AWM Specification:                    | UL Style 2464 (30 V 80°C) (I/II A) |
| 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): | 10/01/2005                         |
| 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 UL Loading |
| CSA Flame Test: | FT1               |

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Unaveraged Impedance:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Impedance (Ohm) |
|-------------|-------------|-------------------|------------------|-----------------|
| Data        |             |                   |                  | 120             |

#### Nom. Capacitance Conductor to Conductor:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Capacitance (pF/m) |
|-------------|-------------|-------------------|------------------|--------------------|
| Data        | 1           |                   |                  | 39.372             |

#### Nominal Velocity of Propagation:

| Description | VP (%) |
|-------------|--------|
| Data        | 76     |

#### Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 57.4175             |

#### Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 25.9199             |

#### Nom. Attenuation:

| Description | Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-------------|-----------------------|
| Data        | .125        | 0.75463               |
|             | .500        | 1.37802               |
|             | 1.0         | 1.9686                |

#### Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 300 V RMS |

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### Max. Recommended Current:

| Current                     |
|-----------------------------|
| 3 Amps per conductor @ 25°C |

### Notes (Overall)

Notes: Micro Cable (Drop)

### Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color    | Notes | Item Desc                |
|---------------|--------|-------------|----------|-------|--------------------------|
| 3087A U3R1000 | 305 MT | 18.597 KG   | GRAY U3R | C     | #22 FS PR, #22 FS PR PVC |
| 3087A U3R2000 | 610 MT | 38.102 KG   | GRAY U3R | C     | #22 FS PR, #22 FS PR PVC |
| 3087A U3R500  | 152 MT | 8.391 KG    | GRAY U3R | C     | #22 FS PR, #22 FS PR PVC |

#### Notes:

C = CRATE REEL PUT-UP.

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