

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

For more Information  
please call

1-800-Belden1



### General 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)

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

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 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):	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:

METRIC MEASUREMENT VERSION

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

**Voltage**

300 V RMS

**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	1,000 FT	41.000 LB	GRAY U3R	C	#22 FS PR, #22 FS PR PVC
3087A U3R2000	2,000 FT	84.000 LB	GRAY U3R	C	#22 FS PR, #22 FS PR PVC
3087A U3R500	500 FT	20.500 LB	GRAY U3R	C	#22 FS PR, #22 FS PR PVC
3087A U3R5000	5,000 FT	210.000 LB	GRAY U3R	C Z	#22 FS PR, #22 FS PR 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: 1    Revision Date: 04-21-2008

© 2019 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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