

3086A Multi-Conductor - DeviceBus® for Honeywell Smart Distributed System



For more Information
please call

1-800-Belden1



General Description:

16 and 20 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. (in.)
1	16	19x29	TC - Tinned Copper	.067
1	20	19x32	TC - Tinned Copper	.041

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Material	AWG
PVC - Polyvinyl Chloride	16
FPE - Foam Polyethylene	20

Insulation Resistance: 10000 Mega-Ohm

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
16 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
20 AWG Pair	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
20	19x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.398 in.

Pair

Pair Color Code Chart:

Number	Color
1 (16 AWG)	Blue & Brown
2 (20 AWG)	Black & White

Pair Lay Length & Direction:

Lay Length (in.)
2.000

Mechanical Characteristics (Overall)

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: 78.800 lbs/1000 ft.

Max. Recommended Pulling Tension: 121 lbs.

3086A Multi-Conductor - DeviceBus® for Honeywell Smart Distributed System

Min. Bend Radius/Minor Axis: 4 in.

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):	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 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)
20 AWG Pair Only				120

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/ft)
20 AWG Pair Only	1			12.0

Nominal Velocity of Propagation:

Description	VP (%)
20 AWG Pair Only	76

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
16 AWG	3.6
20 AWG	10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.5

Nom. Attenuation:

Description	Freq. (MHz)	Attenuation (dB/100 ft.)
20 AWG Pair Only	.125	.18
	.500	.35
	1.0	.47

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Description	Current
16 AWG	7.0 Amps
20 AWG	3.5 Amps

Notes (Overall)

Notes: Mini-Cable (Trunk)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3086A U3R1000	1,000 FT	88.000 LB	GRAY U3R	C	#20 FS PR, #16 FSPR PVC
3086A U3R500	500 FT	43.500 LB	GRAY U3R	C	#20 FS PR, #16 FSPR PVC

Notes:

3086A Multi-Conductor - DeviceBus® for Honeywell Smart Distributed System

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 04-21-2008

© 2017 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).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[3086A U3R500](#) [3086A U3R1000](#)