

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



For more Information
 please call
 1-800-Belden1



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.)
1.000	16	19x29	TC - Tinned Copper	0.067
1.000	20	19x32	TC - Tinned Copper	0.041

Insulation:

Insulation Material

Layer #	Ins Trade Name	Ins Material	Wall Thickness (in.)	Dia. (in.)	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 (%)	Stranding	Dia. (in.)	Conductor Material
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 Cabling:

Overall Nominal Diameter: .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):

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

Operating Temperature Range	-30°C To +80°C
Storage Temperature Range	-40°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.
Min. Bend Radius (Install):	4 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CL2
CEC/C(UL) Specification	FT1
AWM Specification	UL Style 2464 (30 V 80°C) (I/II A)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	04/01/2005

Flame Test:

UL Flame Test	UL1685 UL Loading
CSA Flame Test	FT1

Plenum/Non-Plenum:

Plenum (Y/N)	N
--------------	---

Electrical Characteristics (Overall):

Unaveraged Impedance

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
20 AWG Pair Only				120.000

Nom. Capacitance Conductor to Conductor

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/ft)
20 AWG Pair Only	1.000			12.000

Nominal Velocity of Propagation

Description	VP (%)
20 AWG Pair Only	76

Nom. Conductor DC Resistance

Description	DCR @ 20°C (Ohm/1000 ft)
16 AWG	3.600
20 AWG	10.000

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
20 AWG Pair Only	0.125			0.180
	0.500			0.350
	1.000			0.470

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Description	Current
16 AWG	7.0 Amps
20 AWG	3.5 Amps

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
5.500

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

Notes (Overall):

Notes Mini-Cable (Trunk)

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
3086A U3R1000	1,000 FT	88.000 LB	GRAY U3R	C	#20 FS PR, #16 FSPR PVC GRYU3R
3086A U3R500	500 FT	43.500 LB	GRAY U3R	C	#20 FS PR, #16 FSPR PVC GRYU3R

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 05-14-2007

© 2007 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 the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs. (San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). 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 the 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 73/23/EEC), as amended by directive 93/68/EEC.