



Part Number: 3086A

DeviceBus® for Honeywell System, (1 pr) 16 AWG (19x29) TC & (1 pr) 20 AWG (19x32) TC, PVC/PVC & FPE/PVC, Foil Shld, CL2

Product Description

One 16 AWG pair stranded (19x29) tinned copper conductors and one 20 AWG pair stranded (19x32) tinned copper conductors, PVC insulation (power), foam polyethylene (FPE) insulation (data), individual Beldfoil® shield (100% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
16	19x28	TC - Tinned Copper	1
20	19x32	TC - Tinned Copper	1

Conductor Count:	4
Total Number of Pairs:	2
AWG Size:	16

Insulation

Element	Material	Nominal Wall Thickness
16	PVC - Polyvinyl Chloride	0.016 in
20	FPE - Foamed Polyethylene	0.0415 in

Color Chart

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

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20

Outer Shield Material

Material	Drainwire Construction n x D
Unshielded	19x32 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.398 in	0.04 in

Construction and Dimensions

Stranding

Lay Length
2 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
16 AWG	3.6 Ohm/1000ft	5.5 Ohm/1000ft

20 AWG	10 Ohm/1000ft	
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Capacitance

Element	Nom. Capacitance Conductor to Conductor
20 AWG Pair Only	12 pF/ft

Impedance

Nominal Characteristic Impedance
120 Ohm
120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.125 MHz	0.18 dB/100ft
0.5 MHz	0.35 dB/100ft
1 MHz	0.47 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
	20 AWG Pair Only
76 %	

High Freq

Element	Frequency [MHz]	Max./Min. Input Impedance (unFitted)
20 AWG Pair Only	0.125 MHz	120 Ohm
20 AWG Pair Only	0.5 MHz	
	1 MHz	

Current

Element	Max. Recommended Current [A]
16 AWG	7.0 Amps per Conductor
20 AWG	3.5 Amps

Voltage

UL Voltage Rating
300V RMS

Temperature Range

UL Temp Rating:	80°C
Storage Temp Range:	-40°C To +80 °C
Operating Temp Range:	-30°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	78.8 lbs/1000ft
Max Recommended Pulling Tension:	121 lbs
Min Bend Radius/Minor Axis:	4 in

Standards

NEC/(UL) Specification:	CL2
UL AWM Style:	2464
CSA AWM Specification:	AWM I/II A
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01

CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1

Part Number

Plenum (Y/N):	No
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Variants

Item #	Color	Footnote
3086A U3R1000	GRAY U3R	C
3086A U3R500	GRAY U3R	C

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Mini-Cable (Trunk)
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