



Part Number: 3086A

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

Product Description

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

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
16	19x29	TC - Tinned Copper	0.067 in	1
20	19x32	TC - Tinned Copper	0.041 in	1
Total Number of Conductors:			4	

Insulation:

Element	Material
16	PVC - Polyvinyl Chloride
20	FPE - Foam Polyethylene

Color Chart 1:

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

Stranding:

Lay Length
2 in

Innershield:

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	16 AWG Pair	Aluminum Foil-Polyester Tape	Beldfoil®	100 %
Tape	20 AWG Pair	Aluminum Foil-Polyester Tape	Beldfoil®	100 %

Outershield 1:

Material	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Unshielded	TC - Tinned Copper	20	19x32 mm

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.398 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	

Capacitance:

Element	Nom. Capacitance Conductor to Conductor
20 AWG Pair Only	12 pF/ft
Min Insulation Resistance:	10,000 Mega-Ohm MOhm*1000ft

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.18 db/100ft
0.35 db/100ft
0.47 db/100ft

Delay:

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

High Freq:

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

Current:

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

Voltage:

UL Voltage Rating
300 V RMS

Use

Max Recommended Pulling Tension:	121 lbs
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Safety

CSA Flammability:	FT1
UL Flammability:	UL1685 UL Loading

Temperature Range

Operating Temp Range:	-30°C To +80°C
Storage Temp Range:	-40°C To +80 °C
UL Temp Rating:	80°C (UL AWM Style 2464)

Mechanical Characteristics

Min Bend Radius/Minor Axis:	4 in
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Part Number

Plenum (Y/N):	No
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Standards

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

NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	Mini-Cable (Trunk)
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Product Variants

Part Number	Color	Put-Up Type	Length
3086A U3R1000	GRAY U3R	Reel	1000 ft
3086A U3R500	GRAY U3R	Reel	500 ft

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