



Product: [3086A](#)

DeviceBus® for Honeywell SDS, 2 Pr #16+20 Str TC, PVC+FPE Ins, IS, PVC Jkt, CL2

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Product Description

DeviceBus® for Honeywell SDS, 2 Pair 16+20AWG (19x28+19x32) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® Shield, PVC Outer Jacket, CL2

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Power Pair(s)	1	16 AWG	19x28	TC - Tinned Copper
Data Pair(s)	1	20 AWG	19x32	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.090 in (2.3 mm)	Blue & Brown
Data Pair(s)	PE - Polyethylene (Foam)	0.042 in (1.1 mm)	0.120 in (3.05 mm)	Black & White

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Power Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%		
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (19x32) TC	Power & Data Pairs share same Drainwire

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.040 in (1.0 mm)	0.398 in (10.1 mm)

Overall Cable Diameter (Nominal):	0.398 in (10.1 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	4.52 Ohm/1000ft	6.94 Ohm/1000ft (22.8 Ohm/km)				18 Amps per Conductor at 30°C
Data Pair(s)	11.3 Ohm/1000ft (37.1 Ohm/km)	5.75 Ohm/1000ft (18.9 Ohm/km)	12 pF/ft (39 pF/m)	120 Ohm	76%	8 Amps per Conductor at 30°C

High Frequency (Nominal/Typical)

Element	Frequency [MHz]	Nom. Insertion Loss (Attenuation)
Data Pair(s)	0.125	0.18 dB/100ft
	0.5	0.35 dB/100ft
	1	0.47 dB/100ft

High Frequency

Max./Min. Input Impedance (unFitted) [Ohm]
120

Voltage

UL Voltage Rating	Voltage Rating
300 V (CL2), 300 V (AWM 2464)	300 V (AWM I/II A)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Storage
80°C	-20°C to +80°C	-40°C to +80 °C

Bend Radius

Stationary Min.	Installation Min.
3.98 in (101 mm)	3.98 in (101 mm)

Max. Pull Tension:	125 lbs (56.7 kg)
Bulk Cable Weight:	79 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, CL2
AWM Compliance:	AWM 2464, AWM I/II A
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Mini-Cable (Trunk)
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History

Update and Revision:	Revision Number: 0.479 Revision Date: 04-30-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3086A U3R500	Gray U3R	Reel	500 ft	612825141044	C
3086A U3R1000	Gray U3R	Reel	1,000 ft	612825141037	C

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