



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. |
|------------------------|--|

Construction Details

Conductor

| Element | Number of Element | 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) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| Element | Nom. Conductor DCR | Nom. Inner Shield DCR | Nom. Capacitance Cond-to-Cond | Nom. Characteristic Impedance | 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

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| Notes: | Mini-Cable (Trunk) |
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History

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| Update and Revision: | Revision Number: 0.476 Revision Date: 01-20-2023 |
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Part Numbers

Variants

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

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