



**Product:** [3082A](#) 

DeviceBus®, 2 Pr #15+18 Str TC, PVC+FPE Ins, IS+OA TC Brd, PVC Jkt, CMG PLTC-ER

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## Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 15+18AWG (19x27+19x30) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, CMG PLTC-ER

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, ODVA device-level communication, used with CIP (common Industrial Protocol) for control, configuration, and data collection between devices, such as sensors and actuators, and higher level devices such as PLC, and PC in industrial automation, bus topology, etc.
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### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Power Pair(s)	1	15 AWG	19x27	TC - Tinned Copper
Data Pair(s)	1	18 AWG	19x30	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code	Notes
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.109 in (2.77 mm)	Red & Black	
Data Pair(s)	PE - Polyethylene (Foam)	0.053 in (1.3 mm)	0.150 in (3.81 mm)	Blue & White	HDPE

#### Inner Shield

Element	Shield Type	Material	Coverage
Power Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%
Data Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Braid	Tinned Copper (TC)	65%	18 AWG (19x30) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.480 in (12.2 mm)

Outer Jacket1 Table Notes:	Jacket OD +/- 0.010
Overall Cable Diameter (Nominal):	0.480 in (12.2 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Delay	Nom. Inductance	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	3.58 Ohm/1000ft	5.75 Ohm/1000ft (18.9 Ohm/km)				0.174 µH/ft (0.571 µH/m)		16 Amps per Conductor at 30°C
Data Pair(s)	7.2 Ohm/1000ft (24 Ohm/km)	3.58 Ohm/1000ft (11.7 Ohm/km)	12 pF/ft (39 pF/m)	120 Ohm	1.36 ns/ft		75%	14 Amps per Conductor at 30°C

Nom Outer Shield DCR:	7.29 Ohm/1000ft (23.9 Ohm/km)
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Voltage

UL Voltage Rating	Voltage Rating
300 V (CMG, PLTC-ER), 600 V (AWM 20201)	300 V (AWM I/II A)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
5.76 in (146 mm)	5.76 in (146 mm)

Max. Pull Tension:	192.6 lbs (87.36 kg)
Bulk Cable Weight:	128 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, IEEE 1202 FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC
AWM Compliance:	AWM 20201, AWM I/II A
CEC / C(UL) Compliance:	CMG
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)
Other Standard Compliance(s):	ODVA Class 2 Thick

Product Notes

Notes:	Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Associatio, Inc. Trademark. Jacket printed ""1PR16"" instead of ""1PR15"" due to UL requirements for CMG Listing.
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History

Update and Revision:	Revision Number: 0.606 Revision Date: 09-07-2025
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
3082A T5U500	Gray T5U	Reel	500 ft	612825140788	C
3082A T5U2000	Gray T5U	Reel	2,000 ft	612825140764	C
3082A T5U3000	Gray T5U	Reel	3,000 ft	612825140771	

Footnote:	C - CRATE REEL PUT-UP.
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