



Product: 3082A ☑

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

Request Sample

# **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.

# **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)	Таре	Bi-Laminate (Alum+Poly)	100%
Data Pair(s)	Таре	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	Hom. Imounicas	Hom. Diameter
PVC - Polyvinyl Chloride	0.060 in (1.5 mm)	0.480 in (12.2 mm)
Table Notes:	Jacket OD +/- 0.	010
Overall Cable Diameter (Nominal):	0.480 in (12.2 m	m)

# **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)	3.58 Ohm/1000ft	5.75 Ohm/1000ft (18.9 Ohm/km)				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	75%	14 Amps per Conductor at 30°C
Nom. Outer Shield DCR: 7.29 Ohm/1000ft (23.9 Ohm/km)						

# **High Frequency**

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted) [Ohm]
Data Pair(s)	0.125	0.13 dB/100ft	120
	0.5	0.25 dB/100ft	
	1	0.36 dB/100ft	

#### Voltage

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

# **Mechanical Characteristics**

#### Temperature

<b>UL Temperature</b>	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 due to UL requirements for CMG Listing.	Open DeviceNet Vendor Associatio, Inc. Trademark. Jacket printed ""1PR16"" instead of ""1PR15""
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# History

Update and Revision:	Revision Number: 0.604 Revision Date: 04-30-2024

### **Part Numbers**

### Variants

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

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