

# Product: <u>3085A</u> ☑

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPE Ins, IS+OA TC Brd, CPE Jkt, CMG, CL2

😭 Request Sample

# **Product Description**

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (19x34+19x36) Tinned Copper, PVC+Foam PE Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, CPE Outer Jacket, CMG, CL2

# **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	22 AWG	19x34	TC - Tinned Copper
Data Pair(s)	1	24 AWG	19x36	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	0.072 in (1.8 mm)	Red & Black
Data Pair(s)	PE - Polyethylene (Foam)	0.026 in (0.66 mm)	0.077 in (2.0 mm)	Blue & White

## 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	Shield Type Material		Drainwire Type
Braid	Tinned Copper (TC)	65%	22 AWG (19x34) TC

#### Outer Jacket

Material		Nom. Thickness	Nom. Diameter
CPE - Chlorinated Polyethylene		0.033 in (0.84 mm)	0.280 in (7.11 mm)
Table Notes:	Jack	ket OD +/- 0.005	
Overall Cable Diameter (Nominal):	0.280 in (7.11 mm)		

#### **Electrical Characteristics**

# Electricals

Element	Nom. Conductor DCR	Max. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedence	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	18.2 Ohm/1000ft	17.5 Ohm/1000ft	7.95 Ohm/1000ft (26.1 Ohm/km)				6 Amps per Conductor at 30℃
Data Pair(s)	28.8 Ohm/1000ft (94.5 Ohm/km)	28 Ohm/100m	7.45 Ohm/1000ft (24.4 Ohm/km)	12.0 pF/ft (39.4 pF/m)	120 Ohm	75%	6 Amps per Conductor at 30°C
Nom. Outer Shield DCR: 5 Ohm/1000ft (16 Ohm/km)							

#### High Frequency

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)
Data Pair(s)	0.125	.29 dB/100ft
	0.5	0.5 dB/100ft
	1	0.7 dB/100ft

#### Voltage

UL Voltage Rating

300 V (CMG, CL2)

**Mechanical Characteristics** 

Temperature	
UL Temperature Oper	rating
75°C -20°C t	o +75°C
Bend Radius	
Stationary Min. Installat	tion Min.
2.8 in (71 mm) 2.8 in (7	1 mm)
Max. Pull Tension:	70.06 lbs (31.78 kg)
Bulk Cable Weight:	46 lbs/1000ft
Standards and Con	npliance
Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance

#### Flammability / Reaction to UL 1685 FT4 Loading, IEEE 1202 FT4, IEC 60332-1-2 Fire: CPR Compliance: CPR Euroclass: Eca NEC / UL Compliance: Article 725, Article 800, CL2, CMG 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** UKCA Mark Compliance: APAC Compliance: China RoHS II (GB/T 26572-2011) Other Standard ODVA Class 2 Thin Compliance(s):

#### **Product Notes**

Thin. Meter marks on jacket to aid users in installation. ODVA Devicenet is an Open DeviceNet Vendor Association, Inc. trademark

## **History**

Notes:

Update and Revision: Revision Number: 0.549 Revision Date: 08-09-2023

#### **Part Numbers**

Variants					
ltem #	Color	Putup Type	Length	UPC	Footnote
3085A 5601000	Yellow, Bright	Reel	1,000 ft	612825140993	С
3085A 5602000	Yellow, Bright	Reel	2,000 ft	612825141006	С
3085A 5605000	Yellow, Bright	Reel	5,000 ft	612825141020	CZ

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