



Product: <u>3085A</u> ☑

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

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

Outer Jacket

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

Electrical Characteristics

Electricals

Pair(s) 16.2 Onliny 1000tt 17.3 Onliny 1000tt Ohm/km) 30°C	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
Data Pairis) 120 Onm 100m 120 Onm 100m 120 Onm	Pair(s) 18.2 Onm/1000ft Data Pair(s) 28.8 Ohm/1000ft (94.5		17.5 Ohm/1000ft					6 Amps per Conductor at 30°C
			28 Ohm/100m		12.0 pF/ft (39.4 pF/m)	120 Ohm	75%	6 Amps per Conductor at 30°C

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	Operating
75°C	-20°C to +75°C

Bend Radius

Stationary Min.	Installation Min.
2.8 in (71 mm)	2.8 in (71 mm)

Max. Pull Tension:	70.06 lbs (31.78 kg)
Bulk Cable Weight:	46 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Sunlight 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, 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 Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Other Standard Compliance(s):	ODVA Class 2 Thin

Product Notes

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

History

Revision Number: 0.516 Revision Date: 04-14-2023	Update and Revision:

Part Numbers

Variants

Item #	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

© 2023 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.