



## Product: [3084F](#)

DeviceBus®, 2 Pr #22+24 Str TC, PVC+FPP Ins, IS+OA TC Brd, PVC Jkt, High Flex, CMG, CL2

 [Request Sample](#)

### Product Description

DeviceBus® for ODVA DeviceNet™, 2 Pair 22+24AWG (26x36+19x36) Tinned Copper, PVC+Foam PP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, PVC Outer Jacket, High Flex, 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	26x36	TC - Tinned Copper
Data Pair(s)	1	24 AWG	19x36	TC - Tinned Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Power Pair(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	Red & Black
Data Pair(s)	PP - Polypropylene	0.028 in (0.71 mm)	Blue & White

##### 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%	22 AWG (26x36) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.036 in (0.91 mm)	0.275 in (6.99 mm)

Overall Cable Diameter (Nominal): 0.275 in (6.99 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Max. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Characteristic Impedance	Nom. Delay	Nom. Velocity of Prop.	Max. Current
Power Pair(s)	17.5 Ohm/1000ft (57.4 Ohm/km)	17.5 Ohm/1000ft					4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)
Data Pair(s)		28 Ohm/100m	12.0 pF/ft (39.4 pF/m)	120 Ohm	1.36 ns/ft	75%	4 Amps Per Conductor at 24 V (per NEC CL2) (Power Pair)

Nom Outer Shield DCR: 3.2 Ohm/1000ft (10 Ohm/km)

##### Voltage

**UL Voltage Rating**

300 V (CMG)

**Mechanical Characteristics****Temperature**

UL Temperature	Operating
75°C	-20°C to +75°C

**Bend Radius**

Stationary Min.	Installation Min.
2.75 in (69.9 mm)	2.75 in (69.9 mm)

Max. Pull Tension: 65 lbs (29 kg)

Bulk Cable Weight: 41 lbs/1000ft (61 kg/km)

**Standards and Compliance**

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, 1202
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 725, Article 800, CL2, CMG
AWM Compliance:	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 Thin

**Product Notes**

Notes: Hi-Flex. Thin. Flex Test Results: "S-Bend" Flex Test - 4" Diameter Wheels, 2 lbs. tension: 150, 000 Cycles Averaged. +/-90 Degree Flex Test: 2" Diameter, 2 lbs. tension - 8500 Cycles Averaged. Flex tests were conducted at less than the recommended cable minimum bend radius. Actual cable performance will depend on the individual application. Meter marks on jacket to aid users in installation.

**History**

Update and Revision: Revision Number: 0.699 Revision Date: 09-25-2025

**Part Numbers****Variants**

Item #	Color	Putup Type	Length	UPC	Footnote
3084F T5U500	Gray T5U	Reel	500 ft	612825140955	C N
3084F T5U1000	Gray T5U	Reel	1,000 ft	612825140931	C
3084F T5U2000	Gray T5U	Reel	2,000 ft	612825140948	C
3084F T5U5000	Gray T5U	Reel	5,000 ft	612825140962	C Z

Footnote: C - CRATE REEL PUT-UP., N - FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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