



Product: [1345F](#)

Fieldbus, 2 C #15+18 Str TC, PVC-NYL&FEP Ins, IS+OA TC Brd, TPE Jkt, High Flex

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Product Description

Fieldbus, 2 Conductor 15+18AWG (65x33+65x36) Tinned Copper, PVC-NYL&FEP Insulation, Individual Beldfoil® & OA Tinned Copper Braid(65%) Shield, Orange TPE Outer Jacket, High Flex

Technical Specifications

Product Overview

Suitable Applications: harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
15	65x33	TC - Tinned Copper	1
18	65x36	TC - Tinned Copper	1

Conductor Count: 4

Insulation

Element	Material	Nominal Wall Thickness
15 AWG	PVC - Polyvinyl Chloride	0.021 in
18 AWG	PE - Polyethylene (Foam)	0.053 in

Color Chart

Number	Color
1 (15 AWG)	Red & Black
2 (18 AWG)	Blue & White

Inner Shield

Type	Layer	Material	Coverage [%]
Tape	15 AWG Pair	Bi-Laminate (Alum+Poly)	100%

Outer Shield

Type	Material	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Braid	Tinned Copper (TC)	65%	TC - Tinned Copper	18	65x36

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.480 in	0.060 in

Electrical Characteristics

Conductor DCR

Element	Nominal Conductor DCR	Nominal Outer Shield DCR
15 AWG	3.6 Ohm/1000ft	1.8 Ohm/1000ft
18 AWG	6.9 Ohm/1000ft	

Capacitance

Element	Nom. Capacitance Conductor to Conductor
18 AWG Pair Only	
	12.0 pF/ft

Inductance

Element	Nominal Inductance
15 AWG Pair Only	0.174 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm
120 Ohm

Delay

Max. Delay	Max. Delay Description	Nominal Delay	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	18 AWG Pair Only			18 AWG Pair Only
		1.36 ns/ft	75%	

High Frequency

Element	Frequency [MHz]	Max./Min. Input Impedance (unFitted)
18 AWG Pair Only	0.125 MHz	120 Ohm
	0.5 MHz	
	1 MHz	

Current

Element	Max. Recommended Current [A]
15 AWG	8 Amps per Conductor
18 AWG	5 Amps per Conductor

Voltage

UL Description	UL Voltage Rating
CMG, PLTC-ER	300 V
UL AWM 20201	600 V

Temperature Range

UL Temp Rating:	75°C
Operating Temperature Range:	-30°C to +75°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	133 lbs/1000ft
Max. Pull Tension:	205 lbs
Min. Bend Radius/Minor Axis:	4.6 in

Standards

NEC Articles:	Article 725, Article 800
NEC/(UL) Compliance:	CMG, PLTC-ER
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 20201
CSA AWM Compliance:	AWM I/II A
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

MII Order #39 (China RoHS):	Yes
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Suitability

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1345F T5U1000	Gray T5U	Reel	1,000 ft	612825112327

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	High-Flex. Thick. Meter marks on jacket to aid users in installation. ODVA DeviceNet is an Open DeviceNet Vendor Association, 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: 0.450 Revision Date: 04-08-2022
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