



**Product:** <u>1345F</u> ☑

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

# **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		TC - Tinned Copper	1
Condu	Conductor Count: 4		

### Insulation

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

### **Color Chart**

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

### Inner Shield Material

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

### **Outer Shield Material**

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**

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
	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) Description
1.36 ns/ft	18 AWG Pair Only		18 AWG Pair Only
		1.36 ns/ft	

# High Freq

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

<b>UL Description</b>	UL Voltage Rating
CMG, PLTC-ER	300 V
UL AWM 20201	600 V

# **Temperature Range**

UL Temp Rating:	75°C
Operating Temp 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:	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 II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

EU CE Mark:	Yes		
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01		
MII Order #39 (China RoHS): Yes			

### 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		

### **Part Number**

### Variants

Item #	Color	Putup Type	Length	UPC
1345F T5U1000	Gray T5U	Reel	1,000 ft	612825112327
Footnote:		C - CRATE	REEL PU	IT-UP.

### **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 of ""1PR15" due to UL requirements for CMG Listing.	" instead
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### **History**

Update and Revision:	Revision Number: 0.375 Revision Date: 09-30-2020

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