



Part Number: 2129A

FOUNDATION Fieldbus, (5 pr) 16 AWG (7x24) TC,

XLP/TPE, Foil Shld, 600V, TC

# **Product Description**

Five 16 AWG pairs stranded (7x24) tinned copper, cross-linked polyolefin insulation, overall Beldfoil® shield (100% coverage), thermoplastic elastomer (TPE) jacket.

# **Product Specifications**

# **Technical Specifications**

## **Construction and Dimensions**

#### Conductor:

AWG	Stranding	Material	No. of Pairs
16	7×24	TC - Tinned Copper	5

Total Number of Conductors:	10
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#### Insulation:

Material		
XLP - Cross-linked Polyolefin		

### Color Chart 1:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3
4	Blue & Orange Numbered 4
5	Blue & Orange Numbered 5

#### Stranding:

Lay Length			
0.091 mm			

#### Innershield:

Ту	ype Material		Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Тар	ре	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	18	7x26 mm
		TC - Tinned Copper				

#### Outershield 1:

Тур	e Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Тар	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	16	7x24 mm

#### Outerjacket 1:

Material	Nominal Diameter	Ripcord
FR PVC - Flame Retardant Polyvinyl Chloride	0.789 in	Yes

# **Electrical Characteristics**

#### **Conductor DCR:**

Nominal Conductor DCR	
4.2 Ohm/1000ft	

## Capacitance:

Max. Capacitance Unbalance

1.2 pF/ft 22 pF/	/ft
Other Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

Nom. Capacitance Conductor to Shield

## High Frequency (Nominal/Typical):

Nom. Insertion Loss	
0.065 db/100ft	

## Delay:

Nominal Velocity of Propagation (VP) [%]	
64 %	

#### High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)	
	0.091 db/100ft	100 Ohm	
0.03125 MHz			
0.039 MHz			
0.039 MHz			

#### **Current:**

Element	Max. Recommended Current [A]
Per Conductor	10.1 Amps

#### Inductance:

Nominal Inductance	
0.22 µH/ft	

## Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA CIC type TC	600 V RMS	600 V RMS

# Use

Suitability - Oil Resistance:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	504 lbs

# Safety

CSA Flammability:	FT4	
ISO/IEC Flammability:	60332-3-24 (Category C)	
UL Flammability:	UL1581 Vertical Tray	

# Temperature Range

Installation Temp Rating:	-25°C	
Operating Temp Range:	-25°C Cold Impact -40°C To +90°C -55°C Cold Bend	
UL Temp Rating:	90°C Wet/Dry	

# **Mechanical Characteristics**

Min Bend Radius/Minor Axis:	8 in
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#### **Part Number**

#### **Standards**

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)	
CSA AWM Specification:	CSA Specification	
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)	
NEC/(UL) Specification:	NEC/(UL) Specification	
Other Specification:	Other Specification	
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)	
EU CE Mark:	EU CE Mark	

## **History**

### **Product Variants**

Part Number	Color	Put-Up Type	Length
2129A 0031000	ORANGE	Reel	1000 ft
2129A 0035000	ORANGE	Reel	5000 ft
2129A 0061000	BLUE, LIGHT	Reel	1000 ft
2129A 0065000	BLUE, LIGHT	Reel	5000 ft

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