



Part Number: 2114a

FOUNDATION Fieldbus, (16 pr) 16 AWG (7x24) TC, XLP/FR-PVC, Foil Shld, 300V, CMG, PLTC-ER

Product Description

Sixteen 16 AWG pair stranded (7x24) tinned copper conductors, cross-linked polyolefin, overall Beldfoil® shield (100% coverage), flame retardant PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
16	7X24	TC - Tinned Copper	16
Total Number of Conductors:			32

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
6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8
9	Blue & Orange Numbered 9
10	Blue & Orange Numbered 10
11	Blue & Orange Numbered 11
12	Blue & Orange Numbered 12
13	Blue & Orange Numbered 13
14	Blue & Orange Numbered 14
15	Blue & Orange Numbered 15
16	Blue & Orange Numbered 16

Stranding:

Lay Length
0.091 mm

Innershield:

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

Outershield 1:

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

Outerjacket 1:

Material	Nominal Diameter	Ripcord
FR PVC - Flame Retardant Polyvinyl Chloride	1.321 in	Yes

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
4.2 Ohm/1000ft

Capacitance:

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield
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

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.065 db/100ft

Delay:

Nominal Velocity of Propagation (VP) [%]
0.64 %

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	7.2 Amps

Inductance:

Nominal Inductance
0.22 μ H/ft

Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA CIC type TC	300 V RMS	300 V RMS

Use

Suitability - Oil Resistance:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	1536 lbs

Safety

CSA Flammability:	FT4
ISO/IEC Flammability:	60332-3-24 (Category C)
UL Flammability:	UL1685 FT4 Loading

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:	13.25 in
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Part Number

Plenum (Y/N):	No
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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

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