



Part Number: 2105A

FOUNDATION Fieldbus, (16 pr) 18 AWG (7x26) TC, XLP/FR-PVC, Foil Shld, 300V, CMG, PLTC-ER

Product Description

Sixteen 18 AWG pairs stranded (7x26) tinned copper conductors, cross-linked polyolefin insulation, overall Beldfoil® shield (100% coverage), flame retardant PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
18	7×26	TC - Tinned Copper	16
Total Num	ber of Conductors:	32	

Insulation:

Material			
XLP - Cross-linked Po	lyolefin		

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:

Туре	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	20	7x28 mm
	TC - Tinned Copper				

Outershield 1:

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	M100 %	TC - Tinned Copper	18	7x26 mm

Outerjacket 1:

Material	Nominal Diameter	Ripcord
FR PVC - Flame Retardant Polyvinyl Chloride	1.126 in	Yes

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	
5.86 Ohm/1000ft	

Capacitance:

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield
1.2 pF/ft	22 pF/ft
Othor Floatrical Characteristic 4	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518

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	
0.08 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	5.4 Amps

Inductance:

Nominal Inductance	
0.22 μH/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:	940 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:	go°C Wet/Dry	

Mechanical Characteristics

Min Bend Radius/Minor Axis:	11.5 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
2105A 0031000	ORANGE	Reel	1000 ft
2105A 0035000	ORANGE	Reel	5000 ft
2105A 0061000	BLUE, LIGHT	Reel	1000 ft
2105A 0065000	BLUE, LIGHT	Reel	5000 ft

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