



**Part Number:** 2104A

FOUNDATION Fieldbus, (12 pr) 18 AWG (7x26) TC, XLP/FR-PVC, Foil Shld, 300V, CMG, PLTC-ER

## Product Description

Twelve 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	7x26	TC - Tinned Copper	12
<b>Total Number of Conductors:</b>			24

#### 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

### 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 %	20	7x28 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	18	7x26 mm

### Outerjacket 1:

Material	Nominal Diameter	Ripcord
FR PVC - Flame Retardant Polyvinyl Chloride	1.015 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

Other Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
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Other Electrical Characteristic 2:	31.25 KBits/sec
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### 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 $\mu$ 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:	711 lbs

### Safety

CSA Flammability:	FT4
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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:	10.25 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

## Product Variants

Part Number	Color	Put-Up Type	Length
2104A 0031000	ORANGE	Reel	1000 ft
2104A 0035000	ORANGE	Reel	5000 ft
2104A 0061000	BLUE, LIGHT	Reel	1000 ft
2104A 0065000	BLUE, LIGHT	Reel	5000 ft

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