



Part Number: 2126A

FOUNDATION Fieldbus or Profibus PA, (50 pr) 18 AWG (7x26) TC, XLPO/TPE, IS/OS, TC-ER

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Product Description

Fifty 18 AWG pairs stranded (7x26) tinned copper, cross-linked polyolefin insulation, individual plus overall Beldfoil® shield (100% coverage), oil- and UV-resistant TPE jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	7x26	TC - Tinned Copper	50

Conductor Count:	100
Total Number of Pairs:	24
Conductor Size:	18 AWG

Insulation

Material	Nominal Wall Thickness
XLP - Cross Linked Polyolefin	0.032 in

Color Chart

Number	Color
1	Blue and Orange Numbered 1
2	Blue and Orange Numbered 2
3	Blue and Orange Numbered 3
4	Blue and Orange Numbered 4
5	Blue and Orange Numbered 5
6	Blue and Orange Numbered 6
7	Blue and Orange Numbered 7
8	Blue and Orange Numbered 8
9	Blue and Orange Numbered 9
10	Blue and Orange Numbered 10
11	Blue and Orange Numbered 11
12	Blue and Orange Numbered 12
13	Blue and Orange Numbered 13
14	Blue and Orange Numbered 14
15	Blue and Orange Numbered 15
16	Blue and Orange Numbered 16
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38	Blue and Orange Numbered 38
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40	Blue and Orange Numbered 40
41	Blue and Orange Numbered 41
42	Blue and Orange Numbered 42
43	Blue and Orange Numbered 43
44	Blue and Orange Numbered 44
45	Blue and Orange Numbered 45
46	Blue and Orange Numbered 46
47	Blue and Orange Numbered 47
48	Blue and Orange Numbered 48
49	Blue and Orange Numbered 49
50	Blue and Orange Numbered 50

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum/Polyester	Beldfoil®	100 %	TC - Tinned Copper	18

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
F-R PVC - Flame Retardant Polyvinyl Chloride	1.947 in	0.12 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
5.86 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor
22 pF/ft

Inductance

Nominal Inductance
0.22 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.039 MHz	0.08 dB/100ft

Delay

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

Current

Max. Recommended Current [A]

5.4 Amps per Conductor

Voltage**UL Voltage Rating**

600 V RMS

Electrical Characteristics Notes:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

Temperature Range

UL Temp Rating:	90°C
Operating Temp Range:	-40°C To 90°C

Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	1782 lbs/1000ft
Max Recommended Pulling Tension:	2892 lbs
Min Bend Radius/Minor Axis:	19.5 in

Standards

NEC/(UL) Specification:	TC-ER
CSA AWM Specification:	AWM I A/B II A/B

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	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
CA Prop 65 (CJ for Wire & Cable):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1581 Vertical Tray
CSA Flammability:	FT4
ISO/IEC Flammability:	60332-3-24 (Category C)
UL voltage rating:	600 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number**Variants**

Item #	Color
2126A 0061000	Blue, Light
2126A 0031000	Orange

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