



**Part Number:** 1359A

Fieldbus, 50 Pr #18 Str TC, PO Ins, IS/OS, PVC Jkt, CMG

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**Product Description**

Fieldbus, 50 Pair 18AWG (7x26) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

**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:	50

**Insulation**

Material	Nominal Wall Thickness
PO - Polyolefin	0.021 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
17	Blue and Orange Numbered 17
18	Blue and Orange Numbered 18
19	Blue and Orange Numbered 19
20	Blue and Orange Numbered 20
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26	Blue and Orange Numbered 26
27	Blue and Orange Numbered 27

28	Blue and Orange Numbered 28
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36	Blue and Orange Numbered 36
37	Blue and Orange Numbered 37
38	Blue and Orange Numbered 38
39	Blue and Orange Numbered 39
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	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.662 in	0.085 in	Yes

## Construction and Dimensions

#### Stranding

##### Twists

5.3 twist/ft

## Electrical Characteristics

#### Conductor DCR

Individual Pair	Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.5 Ohm/1000ft		5.86 Ohm/1000ft	4.9 Ohm/1000ft

#### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	45 pF/ft	24 pF/ft

#### Inductance

##### Nominal Inductance

0.19 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) [%]
66 %

## High Freq

Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
0.091 dB/100ft	100 Ohm

## Current

Element	Max. Recommended Current [A]
Per Conductor	5.2 Amps per Conductor

## Voltage

UL Voltage Rating
300 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

Bulk Cable Weight:	1200 lbs/1000ft
Max Recommended Pulling Tension:	2892 lbs
Min Bend Radius/Minor Axis:	15.5 in

## Standards

NEC/(UL) Specification:	PLTC
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## 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
EU RoHS Compliance Date (yyyy-mm-dd):	2010-02-19
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Suitability

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

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
ISO/IEC Flammability:	60332-3-24 (Category C)
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

## Variants

Item #	Color	UPC	Length	Footnote
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1359A 0031000	Orange	612825112624	1,000 ft	C
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Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.333 Revision Date: 08-22-2019
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