



**Product:** [1366A](#)

Fieldbus, 20 Pr #16 Str TC, PO Ins, IS/OS, PVC Jkt, CMG

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**Product Description**

Fieldbus, 20 Pair 16AWG (7x24H) Tinned Copper, PO Insulation, Individual & Overall Beldfoil® Shield, Orange PVC Outer Jacket, CMG

**Technical Specifications**

**Product Overview**

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
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**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Pairs
16	7x24	TC - Tinned Copper	20

Conductor Count:	40
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**Insulation**

Material	Nominal Wall Thickness
PP - Polypropylene	0.029 in

**Color Chart**

Number	Color
1	Blue, Orange and Numbered
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

**Inner Shield Material**

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	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	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	16	7x24

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.393 in	0.085 in	Yes

## Construction and Dimensions

#### Stranding

##### Twists

5 twist/ft

## Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.5 Ohm/1000ft	4.2 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

#### 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:	105°C
Operating Temp Range:	-40°C to +105°C

## Mechanical Characteristics

Oil Resistance:	Yes
Bulk Cable Weight:	810 lbs/1000ft
Max. Pull Tension:	1428 lbs
Min Bend Radius/Minor Axis:	13.9 in

## Standards

NEC Articles:	Article 725, Article 727, Article 800
NEC/(UL) Compliance:	CMG, ITC-ER, PLTC-ER
CEC/C(UL) Compliance:	CMG

## 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):	2006-09-01
MII Order #39 (China RoHS):	Yes

## Suitability

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

## Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading
IEC Flammability:	60332-3-24 (Category C)
IEEE Flammability:	1202
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

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

### Variants

Item #	Color	Putup Type	Length	UPC
1366A 0031000	Orange	Reel	1,000 ft	612825112709

## History

Update and Revision:	Revision Number: 0.214 Revision Date: 09-30-2020
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