



**Product:** [1031A](#)

Inst, 1 Tri #16 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

[Request Sample](#)

## Product Description

UL Instrumentation, 1 Triad 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES

## Technical Specifications

### Product Overview

Suitable Applications:	Industrial Control, Raceways Cable trays and ducts, Digital Control, Instruments (4-20ma, 0-10v, ...), low voltage digital control (24v, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Triad(s)	1	16 AWG	7x24	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	0.095 in (2.4 mm)	ICEA Chart E1

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

#### Outer Jacket

Separator	Material	Nom. Thickness	Nom. Diameter	Ripcord
PP - Polypropylene Tape	PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.308 in (7.82 mm)	Yes

Overall Cable Diameter (Nominal):	0.308 in (7.82 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Triad(s)	4.2 Ohm/1000ft	54.1 pF/ft (177 pF/m)	97.3 pF/ft (319 pF/m)	18 Amps per conductor @ 30°C

#### Voltage

UL Voltage Rating
300 V (PLTC, CMG, AWM 2464), 150 V (ITC)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-30°C to +105°C

#### Bend Radius

Stationary Min.	Installation Min.

3.6 in (91 mm)	3.6 in (91 mm)
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Max. Pull Tension:	130 lbs (59 kg)
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Bulk Cable Weight:	63 lbs/1000ft
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## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
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Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202 FT4
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NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
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AWM Compliance:	AWM 2464
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CEC / C(UL) Compliance:	CMG
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European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
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APAC Compliance:	China RoHS II (GB/T 26572-2011)
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## History

Update and Revision:	Revision Number: 0.548 Revision Date: 04-14-2023
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
1031A 0101000	Black	Reel	1,000 ft	612825104902
1031A 0105000	Black	Reel	5,000 ft	612825104926
1031A 01010000	Black	Reel	10,000 ft	612825104919
1031A 0061000	Blue, Light	Reel	1,000 ft	612825104889
1031A 00610000	Blue, Light	Reel	10,000 ft	612825104896

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