



Product: [1493A](#)

Inst, 4 Pr #16+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

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### Product Description

UL Instrumentation, 4 Pair 16+22AWG (7x24+7x30) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER CMG AWM 2464 SUN RES DIR BUR

### 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, ...), encoders, 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
Pair(s)	4	16 AWG	7x24	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021 in (0.53 mm)	Black, White and Numbered
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

##### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC
Comm Wire(s)	No Shield			

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.580 in (14.7 mm)	Yes

Overall Cable Diameter (Nominal):	0.580 in (14.7 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Other (Conds + Shield)
Pair(s)	3.67 Ohm/1000ft (12.0 Ohm/km)	60 pF/ft (200 pF/m)
Comm Wire(s)	14.7 Ohm/1000ft (48.2 Ohm/km)	

##### Voltage

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

## Mechanical Characteristics

### Temperature

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

### Bend Radius

Stationary Min.	Installation Min.
5.8 in (150 mm)	5.8 in (150 mm)

Max. Pull Tension:	420 lbs (190 kg)
Bulk Cable Weight:	173 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, T-29-520, 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC-ER, ITC-ER
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.398 Revision Date: 11-09-2022
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC
1493A 0107500	Black	Reel	7,500 ft	612825115663

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