



**Product:** [3048A](#)

Inst, 8 Tri #16+22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

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### Product Description

UL Instrumentation, 8 Triad 16+22AWG (7x24+7x30) 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	No. of Elements	Size	Stranding	Material
Triad(s)	8	16 AWG	7x24	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Color Code
Triad(s)	PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	Black, White, Red and Numbered
Comm Wire(s)	PVC - Polyvinyl Chloride	0.015 in (0.38 mm)	Orange

##### Inner Shield

Element	Shield Type
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	0.063 in (1.6 mm)	0.756 in (19.2 mm)	Yes

Overall Cable Diameter (Nominal):	0.756 in (19.2 mm)
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)
Pair(s)	3.7 Ohm/1000ft (12 Ohm/km)	54.1 pF/ft (177 pF/m)	97.3 pF/ft (319 pF/m)
Comm Wire(s)	14.7 Ohm/1000ft (48.2 Ohm/km)		

##### Voltage

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

#### Mechanical Characteristics

## Temperature

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

## Bend Radius

Stationary Min.	Installation Min.
7.6 in (190 mm)	7.6 in (190 mm)

Max. Pull Tension:	902 lbs (409 kg)
Bulk Cable Weight:	375 lbs/1000ft

## Standards and Compliance

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

## History

Update and Revision:	Revision Number: 0.172 Revision Date: 01-11-2024
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