



Product: [3049AE](#) 

Inst, 8 TR #16 Str BC, PVC-Nylon Ins E1, OS/IS, Blk PVC Jkt, 300V PLTC-ER CMG

Product Description

UL Instrumentation, 8 Triad 16AWG (7x24) Bare Copper, PVC-Nylon Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER CMG AWM 2464 SUN RES DIR BUR

Technical Specifications

Product Overview

Suitable Applications:	Exposed Runs, Hazardous Locations, PLC, 4-20ma
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Triad(s)	16	7x24	BC - Bare Copper	8
Comm Wire(s)			BC - Bare Copper	

Conductor Count:	8
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Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.091 in	0.017 in
Comm Wire(s)	PVC - Polyvinyl Chloride	0.066 in	

Color Chart

Number	Color
1	Black & White and RED 1
2	Black & White and RED 2
3	Black & White and RED 3
4	Black & White and RED 4
	Black & White and RED 5
	Black & White and RED 6
	Black & White and RED 7
	Black & White and RED 8

Inner Shield

Element	Type	Material	Material Trade Name	Drainwire Material	Drainwire AWG
	Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	TC - Tinned Copper	18
Comm Wire(s)	No Shield				

Outer Shield

Type	Material	Material Trade Name	Drainwire Material
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	TC - Tinned Copper

Outer Jacket

Nominal Diameter	Nominal Wall Thickness	Ripcord
0.825 in	0.050 in	Yes

Electrical Characteristics

Conductor DCR

Element
Comm Wire(s)

Voltage

Description	UL Description	Voltage Rating [V]
Type PLTC	TC	300 V RMS

Temperature Range

Operating Temperature Range:	-30°C To +105°C
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Standards

NEC/(UL) Compliance:	CMG, PLTC-ER, ITC-ER
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	Yes
EU CE Mark:	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
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History

Update and Revision:	Revision Number: 0.4 Revision Date: 04-28-2026
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