



Product: [1493A](#) 

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

 [Request Sample](#)

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	AWG	Stranding	Material
Pair(s)	4	16	7x24	BC - Bare Copper
Comm Wire	1	22	7x30	BC - Bare Copper

Insulation

Element	Material	Thickness [in]	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.021	Black, White and Numbered
Comm Wire	PVC - Polyvinyl Chloride	0.019	Orange

Inner Shield Material

Element	Type	Material	Coverage	Drain Type
Pair(s)	Tape	Alum / Poly	100%	18 AWG (7x26) TC
Comm Wire	No Shield			

Outer Shield Material

Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	16 AWG (7x24) TC

Outer Jacket Material

Material	Thickness	Diameter	Ripcord
PVC - Polyvinyl Chloride	0.053 in	0.580 in	Yes

Electrical Characteristics

Electricals

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

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.
5.2 in

Max. Pull Tension:	420 lbs
Bulk Cable Weight:	173 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, T-29-520, 1202
NEC / UL Compliance:	Article 725, Article 800, CMG, PLTC-ER, ITC-ER
AWM Compliance:	2464
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.342 Revision Date: 06-09-2020
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