



Product: [1083A](#)

Inst, 4 Tri #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

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Product Description

UL Instrumentation, 4 Triad 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Individual & 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)	4	20 AWG	7x28	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	0.071 in (1.8 mm)	ICEA Chart E1
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	0.066 in (1.7 mm)	Orange

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Triad(s)	Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC	each triad
Comm Wire(s)	No Shield				

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.482 in (12.2 mm)	Yes

Overall Cable Diameter (Nominal): 0.482 in (12.2 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Inductance	Max. Current
Triad(s)	9.5 Ohm/1000ft	11.53 Ohm/1000ft (37.83 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	0.19 μ H/ft (0.62 μ H/m)	5.6 Amps per conductor @ 30°C
Comm Wire(s)	17.2 Ohm/1000ft (56.4 Ohm/km)					9.6 Amps per conductor @ 30°C
Nom Outer Shield DCR:		6 Ohm/1000ft (20 Ohm/km)				

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.
5.7 in (140 mm)	5.7 in (140 mm)

Max. Pull Tension: 182 lbs (82.6 kg)

Bulk Cable Weight: 126 lbs/1000ft

Standards and Compliance

Environmental Suitability: Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance

Flammability / Reaction to Fire: UL 1685 FT4 Loading, FT4, T-29-520, IEEE 1202 FT4

NEC / UL Compliance: Article 725, Article 727, Article 800, CMG, ITC, PLTC

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: 0.605 Revision Date: 09-07-2025

Part Numbers**Variants**

Item #	Color	Putup Type	Length	UPC	Footnote
1083A 01010000	Black	Reel	10,000 ft	612825106111	C Z

Footnote: C - CRATE REEL PUT-UP., Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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