



Product: <u>1033A</u> ☑

Inst, 1 Pr #20 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER

CMG

Request Sample

Product Description

UL Instrumentation, 1 Pair 20AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC-ER ITC-ER 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, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Construction Details

Conductor

Element	Element Number of Element		Stranding	Material
Pair(s)	1	20 AWG	7x28	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	0.071 in (1.8 mm)	ICEA Chart E1

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

Outer Jacket

Material	Nom. Inickness	Nom. Diameter	Ripcora
PVC - Polyvinyl Chloride	0.037 in (0.94 mm)	0.220 in (5.59 mm)	Yes
Overall Cable Diameter (Nominal):	0.220 in (5.59 mr	m)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Inductance Cond-Grnd	Max. Current
Pair(s)	10.9 Ohm/1000ft	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	.20 μH/ft	8 Amps per conductor @ 30°C

Voltage

UL Voltage Rating
300 V (PLTC-ER, CMG, 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.

2.6 in (66 mm)	2.6 in (66 mm) 2.6 in (66	
Max. Pull Tension	n:	34 lbs (
Bulk Cable Weight:		25 lbs/

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, FT4, IEEE 1202 FT4
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: 0.504 Revision Date: 06-29-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1033A 0101000	Black	Reel	1,000 ft	612825105039
1033A 01010000	Black	Reel	10,000 ft	612825105046

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