



Product: <u>1079A</u> ☑

Inst, 16 Pr #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC ITC CMG

Product Description

UL Instrumentation, 16 Pair 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, ...), encoders, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	16	20 AWG	7x28	BC - Bare Copper
Comm Wire(s)	1	22 AWG	7x30	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.018 in (0.46 mm)	Black, White and Numbered
Comm Wire(s)	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

Inner Shield

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

Outer Shield

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

Outer Jacket

Material Nom. Thickness Nom. Dian	ter Ripcord
PVC - Polyvinyl Chloride 0.063 in (1.6 mm) 0.704 in (17.	nm) Yes
Overall Cable Diameter (Nominal): 0.704 in (17.9 mm)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Max. Current
Pair(s)	9.5 Ohm/1000ft (31 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)	3 Amps per conductor @ 25°C
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.
7.0 in (180 mm)	7.0 in (180 mm)

Max. Pull Tension:	617 lbs (280 kg)	l
Bulk Cable Weight:	286 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
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: 0.409 Revision Date: 04-14-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1079A 0105000	Black	Reel	5,000 ft	612825106005

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