



REPRESENTATIVE IMAGE

**Product:** [1079A](#)

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

[Request Sample](#)

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

#### Insulation

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

#### Inner Shield Material

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

#### Outer Shield Material

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

#### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in	0.704 in	Yes

Cable Diameter (Nominal): 0.704 in

### 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	30 pF/ft	55 pF/ft	3 Amps per conductor @ 25°C
Comm Wire	14.7 Ohm/1000ft			

Nom Outer Shield DCR: 6.5 Ohm/1000ft

#### Voltage

UL Voltage Rating

300 V (CMG, PLTC, UL AWM 2464), 150 V (ITC)

## Mechanical Characteristics

### Temperature

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

### Bend Radius

Stationary Min.	Installation Min.
7.5 in	7 in

Max. Pull Tension:	617 lbs
Bulk Cable Weight:	286 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 (FT4 Loading), FT4, T-29-520, 1202
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC, ITC
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: 0.386 Revision Date: 09-30-2020
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