



Product: [1058A](#) 

Inst, 12 Pr #20+22 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC ITC CMG

 [Request Sample](#)

Product Description

UL Instrumentation, 12 Pair 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, 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
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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
Pair(s)	20	7x28	BC - Bare Copper	
Comm Wire(s)	22	7x30	BC - Bare Copper	1

Conductor Count:	25
Total Number of Pairs:	12

Insulation

Element	Material	Nominal Diameter	Nominal Wall Thickness
Pair(s)	PVC - Polyvinyl Chloride	0.071 in	0.018 in
Comm Wire(s)	PVC - Polyvinyl Chloride	0.066 in	0.019 in

Color Chart

Number	Color
1	ICEA Chart E1
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	

Color Chart 2

Color
Orange

Outer Shield

Type	Material	Material Trade Name	Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.599 in	0.053 in	Yes

Construction and Dimensions

Cabling

Lay Direction
Left Hand

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
9.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Shield
30 pF/ft	55 pF/ft

Inductance

Nominal Inductance
0.19 µH/ft

Current

Max. Recommended Current [A]
4.8 Amps per conductor @ 30°C
9.6 Amps per conductor @ 30°C

Voltage

UL Description	UL Voltage Rating
PLTC, CMG, AWM 2464	300 V
ITC	150 V
	150 V RMS (ITC)

Temperature Range

UL Temperature Rating:	105°C
Operating Temperature Range:	-30°C to +105°C

Mechanical Characteristics

Bulk Cable Weight:	183 lbs/1000ft
Maximum Recommended Pulling Tension:	324 lbs
Minimum Bend Radius During Installation:	7.1 in
Minimum Minor Axis Bend Radius:	6.0 in

Standards

NEC Articles:	Article 725, Article 727, Article 800
NEC/(UL) Compliance:	CMG, ITC, PLTC
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

MII Order #39 (China RoHS):	Yes
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Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL Flammability:	UL 1685 FT4 Loading
ICEA Flammability:	T-29-520
IEEE Flammability:	IEEE 1202 FT4
UL voltage rating:	300 V

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
1058A 0107500	Black	Reel	7,500 ft	612825105589

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.

History

Update and Revision:	Revision Number: 0.708 Revision Date: 06-15-2026
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