



REPRESENTATIVE IMAGE

**Product:** [1058A](#)

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

#### Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	12	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 (0.46 mm)	Black, White and Numbered
Comm Wire	PVC - Polyvinyl Chloride	0.019 in (0.48 mm)	Orange

#### 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	0.053 in (1.3 mm)	0.599 in	Yes

Cable Diameter (Nominal):	0.599 in (15.2 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield
Pair(s)	9.5 Ohm/1000ft (31 Ohm/km)	30 pF/ft (98 pF/m)	55 pF/ft (180 pF/m)
Comm Wire	14.7 Ohm/1000ft (48.2 Ohm/km)		

Nom. Outer Shield DCR:	19 Ohm/1000ft
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#### Voltage

UL Voltage Rating
300 V (CMG, PLTC-ER, UL AWM 2464), 150 V (ITC-ER)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating

105°C	-30°C to +105°C
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#### Bend Radius

Stationary Min.	Installation Min.
6.0 in (150 mm)	6.0 in (150 mm)

Max. Pull Tension:	359 lbs (163 kg)
Bulk Cable Weight:	174 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-ER, ITC-ER
AWM Compliance:	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: 0.379 Revision Date: 06-08-2021
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