



**Product:** [1081A](#)

Inst, 36 Pr #20+22 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V PLTC-ER ITC-ER CMG

[Request Sample](#)

## Product Description

UL Instrumentation, 36 Pair 20+22AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, Individual & 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)	36	20	7x28	BC - Bare Copper
Comm Wire	1	22	7x30	BC - Bare Copper

#### Insulation

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

#### Inner Shield Material

Element	Type	Material	Coverage	Drain Type
Pair(s)	Tape	Alum / Poly	100%	22 AWG (7x30) TC
Comm Wire	No Shield			

#### Outer Shield Material

Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	20 AWG (7x28) TC

#### Outer Jacket Material

Material	Thickness	Diameter	Ripcord
PVC - Polyvinyl Chloride	0.074 in	1.091 in	Yes

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Max. Current
Pair(s)	9.5 Ohm/1000ft	30 pF/ft	3 Amps per Conductor at 25°C
Comm Wire	14.7 Ohm/1000ft		

#### 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

## Bend Radius

Stationary Min.
10.5 in

Max. Pull Tension:	1359 lbs
Bulk Cable Weight:	633 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Fire Resistance:	UL1685 UL Loading, FT4, T-29-520, 1202
NEC / UL Compliance:	Article 725, 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, 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: 0.347 Revision Date: 06-09-2020
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