



Product: [1091A](#)

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

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Product Description

UL Instrumentation, 20 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)	20	20	7x28	BC - Bare Copper
Comm Wire	1	22	7x30	BC - Bare Copper

Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.018 in	0.071	Black, White and Numbered
Comm Wire	PVC - Polyvinyl Chloride	0.019 in	0.066	Orange

Inner Shield Material

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC
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	0.843 in	Yes

Cable Diameter (Nominal):	0.843 in
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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
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Voltage

UL Voltage Rating

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
8.25 in	8.4 in

Max. Pull Tension:	765 lbs
Bulk Cable Weight:	372 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, 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: 0.346 Revision Date: 09-30-2020
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