



Product: [31P1620](#)

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

Product Description

UL Instrumentation, 20 Pair 16AWG (7x24) 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

AWG	Stranding	No. of Conductors
16	7x24	40

Conductor Count:	40
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Insulation

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.090 in

Color Chart

Number	Color
1	Black & White
2	Black & White
3	Black & White
4	Black & White
5	Black & White
6	Black & White
7	Black & White
8	Black & White
9	Black & White
10	Black & White
11	Black & White
12	Black & White
13	Black & White
14	Black & White
15	Black & White
16	Black & White
17	Black & White
18	Black & White
19	Black & White
20	Black & White

Outer Shield

Type	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG

Tape	Beldfoil®	100%	TC - Tinned Copper	20 AWG
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Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.910 in	0.074 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
4.2 Ohm/1000ft

Current

Max. Recommended Current [A]
3.2 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	105°C
Operating Temperature Range:	-25°C To +105°C

Mechanical Characteristics

UV Resistance:	Yes
Min Bend Radius (Overall):	7.3 in

Standards

NEC/(UL) Compliance:	CMG, ITC, PLTC
UL AWM Style Compliance:	AWM 2464

Applicable Environmental and Other Programs

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

Suitability

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

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 Vertical Tray Flame Test
IEEE Flammability:	1202
UL voltage rating:	300 V RMS (PLTC)

History

Update and Revision:	Revision Number: 0.46 Revision Date: 05-31-2024
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