



**Product:** [32P2016](#)

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

### Product Description

UL Instrumentation, 16 Pair 20AWG (7x28) Bare Copper, PVC Insulation E1 Color Code, 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, ...), RTD, control circuits, distributed control system (DCS), programmable logic controller (PLC), Solenoids, Valves, actuators, positioners
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	16	20 AWG	7x28	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.0175 in (0.445 mm)	0.071 in (1.8 mm)	Black & White and Numbered

##### Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.063 in (1.6 mm)	0.706 in	Yes

Overall Cable Diameter (Nominal):	0.706 in
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#### Electrical Characteristics

##### Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
10.7 Ohm/1000ft	18.3 Ohm/1000ft (60.0 Ohm/km)	2.5 Amps per Conductor at 25°C

##### Voltage

<b>UL Voltage Rating</b>
300 V

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating
UL: 105°C, AWM 2464: 80°C	-20°C to +105°C

## Bend Radius

Stationary Min.	Installation Min.
7.06 in (179 mm)	7.06 in

Max. Pull Tension:	496 lbs (225 kg)
Bulk Cable Weight:	276 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800
AWM Compliance:	AWM 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: 0.50 Revision Date: 05-31-2024
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## Part Numbers

### Variants

Item #	UPC
32P2016 0105000	612825360902

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