



**Product:** [32P1816](#)

Inst PVC/PVC, 16 Pr #18 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V  
PLTC ITC CMG

## Product Description

UL Instrumentation, 16 Pair 18AWG (7x26) Bare Copper, PVC Insulation E1 Color Code, Individual & 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
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	16	18	7x26	BC - Bare Copper

#### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC - Polyvinyl Chloride	0.017 in (0.43 mm)	0.08 in (2.0 mm)	Black, White and Numbered

#### Inner Shield

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

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.074 in (1.9 mm)	0.863 in (21.9 mm)	Yes

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
6.92 Ohm/1000ft	2.08 Ohm/1000ft (6.82 Ohm/km)	6 Amps per Conductor at 25°C

#### Voltage

UL Voltage Rating
300 V (PLTC)

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-30°C To +105°C

## Bend Radius

Stationary Min.	Installation Min.
8.63 in (219 mm)	8.63 in (219 mm)

Max. Pull Tension:	735 lbs (333 kg)
Bulk Cable Weight:	364 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 loading, FT4, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, PLTC, ITC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)

## History

Update and Revision:	Revision Number: 0.58 Revision Date: 04-08-2022
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## Part Numbers

### Variants

Item #	UPC
32P1816 0105000	612825361145

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