



Product: [32P1636](#)

Inst PVC/PVC, 36 Pr #16 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V
PLTC ITC CMG

Product Description

UL Instrumentation, 36 Pair 16AWG (7x24) 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 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)	36	16 AWG	7x24	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.090 in (2.3 mm)	ICEA Chart E1

Inner Shield

Shield Type	Material	Coverage	Drainwire Type	Notes
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC	Separator -Polyster Tape

Table Notes: Polyester Tape

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.296 in (32.92 mm)	Yes

Overall Cable Diameter (Nominal): 1.296 in (32.92 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.2 Ohm/1000ft	8.4 Ohm/1000ft (28 Ohm/km)	7 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
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.
12.96 in (329.2 mm)	12.96 in (329.2 mm)

Max. Pull Tension:	3036 lbs (1377 kg)
Bulk Cable Weight:	1102 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	UL1685 FT4 Loading, FT4, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
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: 0.67 Revision Date: 01-04-2024
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Part Numbers

Variants

Item #	UPC
32P1636 0105000	612825361046

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