



Product: [32P1624](#)

Inst PVC/PVC, 24 Pr #16 Str BC, PVC Ins E1, IS/OS, Blk PVC Jkt, 300V
PLTC ITC CMG

Product Description

UL Instrumentation, 24 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

Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	24	16	7x24	BC - Bare Copper

Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PVC - Polyvinyl Chloride	0.016 in (0.41 mm)	0.090 in (2.3 mm)	White and Numbered

Inner Shield

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

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	0.074 in (1.9 mm)	1.146 in (29.11 mm)	Yes

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.35 Ohm/1000ft	1.358 Ohm/1000ft (4.455 Ohm/km)	6 Amps per Conductor at 30°C

Voltage

UL Voltage Rating
300 V (PLTC), 300 V (CMG)

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
11.46 in (291.1 mm)	11.46 in (291.1 mm)

Max. Pull Tension:	1738.8 lbs (788.71 kg)
Bulk Cable Weight:	795 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 FT4 loading, FT4
NEC / UL Compliance:	Article 725, Article 727, Article 800, CMG, ITC, PLTC
AWM Compliance:	AWM 2464
CEC / C(UL) Compliance:	CMG

History

Update and Revision:	Revision Number: 0.56 Revision Date: 04-08-2022
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Part Numbers

Variants

Item #	UPC
32P1624 0105000	612825359623

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