Belden



Product: 32P1604

300V, (4 pr) 16 AWG (7x24) BC, PVC/PVC, IS/OS Foil Shld, PLTC/ITC, CMG

Product Description

UL Instrumentation, 4 Pairs 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Individual & Overall Beldfoil® Shields, 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	4	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)	Black and White and Numbered, {delete]

Inner Shield

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	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	0.053 in (1.3 mm)	0.523 in (13.3 mm)	Yes

Overall Cable Diameter (Nominal):	0.523 in (13.3 mm)

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
4.2 Ohm/1000ft (14 Ohm/km)	8.4 Ohm/1000ft (28 Ohm/km)	13 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	7.0 Ohm/1000ft (23 Ohm/km)

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.
5.23 in (133 mm)	5.23 in (133 mm)

Max. Pull Tension:	360 lbs (160 kg)
Bulk Cable Weight:	157 lbs/1000ft (234 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	UL1685 FT4/IEEE1202 Loading, FT4, 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: 0.112 Revision Date: 01-15-2026

Part Numbers

Variants

Item #	UPC
32P1604 0105000	612825361084

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