



Product: [31P1612](#) 

300V, (12 pr) 16 AWG (7x24) BC, PVC/PVC, IS/OS Foil Shld, PLTC/ITC, CMG

Product Description

UL Instrumentation, 12 Pair 16AWG (7x24) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shields, Black PVC Outer Jacket, PLTC ITC CMG AWM 2464 SUN RES

Technical Specifications

Product Overview

Suitable Applications:	PLC
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	12	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 mm	Black & White and Numbered

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	0.063 in (1.6 mm)	0.723 in	Yes

Overall Cable Diameter (Nominal):	0.723 in
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.36 Ohm/1000ft	10.8 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.
7.23 in (184 mm)	7.23 in

Max. Pull Tension:	869.4 lbs (394.4 kg)
Bulk Cable Weight:	333 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance
Flammability / Reaction to Fire:	UL 1685 UL Loading, 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: 0.42 Revision Date: 08-05-2026
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Part Numbers

Variants

Item #	UPC
31P1612 0105000	612825360995

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