



Product: <u>HP121612</u> ☑

Inst, 16 Pr #12 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC SUN RES

Product Description

UL Instrumentation, 16 Pair 12AWG (7x20) Bare Copper, PVC Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, PLTC 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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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter
12	7x20	BC - Bare Copp	er 0.089 in
Condu	ctor Count:		32
Total I	Number of Pa	airs:	16

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.138 in	.0245 in

Color Chart

Number	Color
Pair 1	Black and White Numbered 1
Pair 2	Black and White Numbered 2
Pair 3	Black and White Numbered 3
Pair 4	Black and White Numbered 4
Pair 5	Black and White Numbered 5
Pair 6	Black and White Numbered 6
Pair 7	Black and White Numbered 7
Pair 8	Black and White Numbered 8
Pair 9	Black and White Numbered 9
Pair 10	Black and White Numbered 10
Pair 11	Black and White Numbered 11
Pair 12	Black and White Numbered 12
Pair 13	Black and White Numbered 13
Pair 14	Black and White Numbered 14
Pair 15	Black and White Numbered 15
Pair 16	Black and White Numbered 16

Outer Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG
Таре	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	0.071 in	14

Outer Jacket

Material Nominal Diameter Nominal Wall Thickness

PVC - Polyvinyl Chloride 1.231 in 0.074 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 4.2 Ohm/1000ft

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

UL Temp Rating:	60°C
Operating Temperature Range:	-25°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	1035 lbs/1000ft
Min Bend Radius (Overall):	12.5 in

Standards

NEC Articles:	Article 725
JL) Compliance:	PLTC-ER

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
CA Prop 65:	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

CSA/C(UL) Flammability:	FT4
UL voltage rating:	300 V RMS

Related Part Numbers

Variants

Item #	Put-Up Type
HP1216120101250	Reel

History

Update and Revision:	Revision Number: 0.42 Revision Date: 02-03-2025

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