



Product: [HP120412](#)

Inst, 4 Pr #12 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC SUN RES

Product Description

UL Instrumentation, 4 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 Copper	0.089 in

Conductor Count: 8

Insulation

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.138 in	0.024 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

Outer Shield

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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.684 in	0.063 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.65 Ohm/1000ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating: 60°C

Operating Temperature Range:	-25°C To +60°C
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Mechanical Characteristics

Bulk Cable Weight:	302 lbs/1000ft
Max. Pull Tension:	694 lbs
Min Bend Radius (Overall):	7.0 in

Standards

NEC Articles:	Article 725
NEC/(UL) 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, LSOH, Toxicity Testing

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

Related Part Numbers

Variants

Item #	Put-Up Type
HP1204120102500	Reel

History

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