



Product: HP122412 ☐

Inst, 24 Pr #12 Str BC, PVC Ins E1, OS, Blk PVC Jkt, 300V PLTC SUN RES

Product Description

UL Instrumentation, 24 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
Sultable Applications.	control system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
12	7x20	BC - Bare Copper	0.089 in	24
Condu	uctor Count:	48	3	

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
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
Pair 17	Black and White Numbered 17
Pair 18	Black and White Numbered 18
Pair 19	Black and White Numbered 19
Pair 20	Black and White Numbered 20
Pair 21	Black and White Numbered 21
Pair 22	Black and White Numbered 22
Pair 23	Black and White Numbered 23
Pair 24	Black and White Numbered 24

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	1.544 in	0.085 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR 1.04 Ohm/1000ft

Voltage

UL Voltage Rating 300 V RMS

Temperature Range

UL Temp Rating:	90°C
Operating Temperature Range:	-25°C To +90°C

Mechanical Characteristics

Bulk Cable Weight:	1750 lbs/1000ft
Min Bend Radius (Overall):	15.5 in

Standards

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 - Sunlight Resistance:	Yes

Flammability, LS0H, Toxicity Testing

UL voltage rating: 300 V RMS			
	UL voltage rating:	300 V PMS	

Related Part Numbers

Variants

Item #	Put-Up Type
HP1224120101150	Reel

History

Update and Revision:	Revision Number: 0.43 Revision Date: 02-03-2025

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