



Product: [9312](#)

High Perform Instr, 1 Pr #12 Str TC, PVC Ins E2, OS, PVC Jkt, PLTC-ER

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Product Description

High Performance Instrumentation, 1 Pair 12AWG (65x30) Tinned Copper, PVC Insulation E2 Color Code, Overall Beldfoil® Shield, PVC Outer Jacket, PLTC-ER

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation, Sensors, Valves, Positioners, 4-20mA, 0-10V
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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	12 AWG	65x30	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC - Polyvinyl Chloride	0.025 in (0.64 mm)	0.143 in (3.63 mm)	Black, Red

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	14 AWG (19x26) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.042 in (1.1 mm)	0.373 in (9.47 mm)	Yes

Overall Cable Diameter (Nominal): 0.373 in (9.47 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	1.8 Ohm/1000ft (5.9 Ohm/km)	25 pF/ft (82 pF/m)	49 pF/ft (160 pF/m)	17 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V (PLTC), 150 V (ITC)

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-30°C to +105°C

Table Notes: AWM 80°C

Bend Radius

Stationary Min.	Installation Min.

3.7 in (94 mm)	3.7 in (94 mm)
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Max. Pull Tension:	217 lbs (98.4 kg)
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Bulk Cable Weight:	92 lbs/1000ft
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Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Sunlight Resistance
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Flammability / Reaction to Fire:	UL1685 UL Loading, FT4, T-29-520, IEEE 1202, FT4
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NEC / UL Compliance:	Article 725, Article 727, CL3R, ITC-ER, PLTC-ER
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AWM Compliance:	AWM 2464
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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)
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APAC Compliance:	China RoHS II (GB/T 26572-2011)
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History

Update and Revision:	Revision Number: 0.384 Revision Date: 04-08-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
9312 060500	Chrome	Reel	500 ft	612825227915
9312 0601000	Chrome	Reel	1,000 ft	612825227908

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