



Product: [9344](#)

High Perform Instr, 1 Pr #12 Str TC, PVC-NYL Ins E2, OS, Blk PVC Jkt, 600V TC

[Request Sample](#)

Product Description

High Performance Instrumentation, 1 Pair 12AWG (37x27) Tinned Copper, PVC-NYL Insulation E2 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC

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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Construction Details

Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	12 AWG	37x27	TC - Tinned Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.027 in (0.69 mm)	0.145 in (3.68 mm)	ICEA Chart E2

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	12 AWG (19x25) TC

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.045 in (1.1 mm)	0.384 in (9.75 mm)	Yes

Overall Cable Diameter (Nominal):	0.384 in (9.75 mm)
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	1.65 Ohm/1000ft	56 pF/ft (180 pF/m)	106 pF/ft (348 pF/m)	8.24 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
600 V (TC), 150 V (NPLF)

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	-30°C to +90°C Dry, 75°C wet

Bend Radius

Stationary Min.	Installation Min.

3.8 in (97 mm)	3.8 in (97 mm)
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Max. Pull Tension:	245 lbs (111 kg)
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Bulk Cable Weight:	106 lbs/1000ft
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Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
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Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202, FT4
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NEC / UL Compliance:	Article 336, Article 760, NPLF, TC
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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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Other Standard Compliance(s):	ICEA S-73-532, S-61-402
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History

Update and Revision:	Revision Number: 0.538 Revision Date: 01-20-2023
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Part Numbers

Variants

Item #	Color	UPC
9344 0101000	Black	612825232223
9344 010500	Black	612825232230

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