



**Product:** [3090A](#)

Inst, 1 Pr #16 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, 600V TC 150V NPLF 90C Dry/Wet

[Request Sample](#)

## Product Description

UL Instrumentation, 1 Pair 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry/Wet SUN RES DIR BUR

## 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	16 AWG	7x24	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.017 in (0.43 mm)	Black, White

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.300 in (7.62 mm)	Yes

Cable Diameter (Nominal):	0.300 in (7.62 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)
Pair(s)	3.67 Ohm/1000ft (12.0 Ohm/km)	50 pF/ft (160 pF/m)	87 pF/ft (290 pF/m)

#### Voltage

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

### Mechanical Characteristics

#### Temperature

UL Temperature	Operating
90°C Dry, 90°C Wet	Wet: -30°C to +90°C, Dry: -25°C to +90°C

#### Bend Radius

Stationary Min.	Installation Min.

3.0 in (76 mm)	3.0 in (76 mm)
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Max. Pull Tension:	105 lbs (47.6 kg)
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Bulk Cable Weight:	46 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:	UL1685 (FT4 Loading), FT4, 1202
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NEC / UL Compliance:	Article 336, Article 760, NPLF, TC
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European Directive Compliance:	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: 0.381 Revision Date: 10-13-2021
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## Variants

Item #	Color	Putup Type	Length	UPC
3090A 0102500	Black	Reel	2,500 ft	612825141204
3090A 0105000	Black	Reel	5,000 ft	612825141211
3090A 01010000	Black	Reel	10,000 ft	612825141198

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