



**Product:** <u>3090A</u> ☑

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

## **Construction Details**

### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	1	16 AWG	7x24	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in (2.57 mm)	Black, White

## Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Таре	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
Overall Cable Diameter (Nominal): 0.300 in (7.62 mm)

## **Electrical Characteristics**

### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	4.45 Ohm/1000ft	50 pF/ft (160 pF/m)	87 pF/ft (290 pF/m)	6.2 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	Wet: -30°C to +90°C, Dry: -25°C to +90°C

## **Bend Radius**

Stationary Min. Installation Min.

3.0 11 (70 11111) 3.0 11 (70	min)
Max. Pull Tension:	105 lbs (47.6 kg)
Bulk Cable Weight:	50 lbs/1000ft

### **Standards and Compliance**

2 0 in (76 mm) 2 0 in (76 mm)

Environmental Suitability: Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial			
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202, FT4		
NEC / UL Compliance: Article 336, Article 760, NPLF, TC			
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)		
APAC Compliance: China RoHS II (GB/T 26572-2011)			
Other Standard Compliance(s):	ICEA S-73-532, S-61-402		

## **History**

Update and Revision:	Revision Number: 0.544 Revision Date: 04-14-2023
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## **Part Numbers**

### 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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