



**Product:** [3091A](#)

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

[Request Sample](#)

## Product Description

UL Instrumentation, 1 Triad 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 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, ...), RTD, 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	AWG	Stranding	Material
Triad(s)	1	16	7x24	BC - Bare Copper

#### Insulation

Element	Material	Thickness [in.]	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.017	Black, White, Red

#### Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	18 AWG (7x26) TC

#### Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in	0.315 in	Yes

Cable Diameter (Nominal):	0.315 in
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR
Triad(s)	3.67 Ohm/1000ft

Nom Outer Shield DCR:	4.99 Ohm/1000ft
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#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
3.1 in	3.8 in

Max. Pull Tension:	129 lbs
Bulk Cable Weight:	62 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Fire Resistance:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER
European Directive Compliance:	EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), 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: 0.354 Revision Date: 07-31-2020
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