



**Product:** [3089A](#) 

Inst, 1 Tri #18 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 18AWG (7x26) 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

### Construction Details

#### Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	1	18 AWG	7x26	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.088 in (2.2 mm)	Black, White, Red

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.290 in (7.37 mm)	Yes

Overall Cable Diameter (Nominal): 0.290 in (7.37 mm)

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Shield	Nom. Inductance	Max. Current
Triad(s)	7.06 Ohm/1000ft	47.3 pF/ft (155 pF/m)	84.2 pF/ft (276 pF/m)	0.199 μH/ft (0.653 μH/m)	5 Amps per Conductor at 25°C

Nom Outer Shield DCR: 8.08 Ohm/1000ft (26.5 Ohm/km)

#### Voltage

UL Voltage Rating
600 V (TC-ER), 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.
3.5 in (89 mm)	3.5 in (89 mm)

Max. Pull Tension:	80 lbs (36 kg)
Bulk Cable Weight:	47 lbs/1000ft

## Standards and Compliance

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-ER
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)

## History

Update and Revision:	Revision Number: 0.600 Revision Date: 04-10-2026
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	UPC/EAN
3089A 0105000	Black	Reel	5,000 ft	612825483380/612825141143
3089A 01010000	Black	Reel	10,000 ft	612825141143

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