



**Product:** [1093A](#)

Inst, 4 Tri #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry 75C Wet

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## Product Description

UL Instrumentation, 4 Triad 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 75C 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	No. of Elements	Size	Stranding	Material
Triad(s)	4	18 AWG	7x26	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.078 in (2.0 mm)	Black, White, Red and Numbered
				Black & White & Red and numbered 1, Black & White & Red and numbered 2, Black & White & Red and numbered 3, Black & White & Red and numbered 4

#### Inner Shield

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

#### 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	0.064 in (1.6 mm)	0.583 in	Yes

### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
6.79 Ohm/1000ft	1.33 Ohm/1000ft (4.36 Ohm/km)	37 pF/ft (120 pF/m)	43 pF/ft (140 pF/m)	7 Amps per Conductor at 25°C

#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.
2.32 in (58.9 mm)	2.9 in

Max. Pull Tension:	347 lbs (157 kg)
Bulk Cable Weight:	181 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760
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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

#### Product Notes

Notes:	Triad groups are numbered for ease of identification. Alternate color coding available upon request.
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#### History

Update and Revision:	Revision Number: 0.457 Revision Date: 02-03-2025
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#### Part Numbers

##### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1093A 0107500	Black	Reel	7,500 ft	612825106333	C Z

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