



**Product:** [3118A](#)

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

[Request Sample](#)

### Product Description

UL Instrumentation, 16 Triad 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF 90C Dry 90C 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	Number of Element	Size	Stranding	Material
Triad(s)	16	16 AWG	7x24	BC - Bare Copper

##### Insulation

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

##### Inner Shield

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

##### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	16 AWG (7x24) TC

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.083 in (2.1 mm)	1.158 in (29.41 mm)	Yes

Overall Cable Diameter (Nominal): 1.158 in (29.41 mm)

#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR
Triad(s)	3.67 Ohm/1000ft (12.0 Ohm/km)	4.99 Ohm/1000ft (16.4 Ohm/km)

##### Voltage

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

#### Mechanical Characteristics

##### Temperature

UL Temperature	Operating

90°C Dry, 90°C Wet -30C to 90C Dry, 90C Wet

#### Bend Radius

Stationary Min.	Installation Min.
11.6 in (295 mm)	11.6 in (295 mm)

Max. Pull Tension:	1771 lbs
Bulk Cable Weight:	838 lbs/1000ft

#### Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 (FT4 Loading), FT4, 1202
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER

#### History

Update and Revision:	Revision Number: 0.161 Revision Date: 10-13-2021
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