



**Product:** [1043A](#)

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

[Request Sample](#)

## Product Description

UL Instrumentation, 16 Pair 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/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
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### Construction Details

#### Conductor

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

#### Insulation

Element	Material	Thickness [in]	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.022	Black, White and Numbered

#### Inner Shield Material

Element	Type	Material	Coverage	Drain Type
Pair(s)	Tape	Alum / Poly	100%	18 AWG (7x26) TC

#### Outer Shield Material

Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	16 AWG (7x24) TC

#### Outer Jacket Material

Material	Thickness	Diameter	Ripcord
PVC - Polyvinyl Chloride	0.084 in	1.013 in	Yes

### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)
Pair(s)	3.67 Ohm/1000ft	50 pF/ft	87 pF/ft

#### Voltage

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

### Mechanical Characteristics

#### Temperature

UL Rating
90°C Dry, 90°C Wet

## Bend Radius

### Stationary Min.

10.2 in

Max. Pull Tension: 1537 lbs

Bulk Cable Weight: 623.1 lbs/1000ft

## Standards and Compliance

Environmental Suitability: Outdoor, Sunlight Resistance, Burial

Flammability / Fire Resistance: UL1685 UL Loading, FT4, 1202

NEC / UL Compliance: NPLF, TC-ER

European Directive Compliance: EU CE Mark, 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: 0.348 Revision Date: 06-09-2020

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