



**Product:** [3080A](#) 

Inst, 1 Pr #14 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, 600V TC 150V NPLF THHN OR THWN

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## Product Description

UL Instrumentation, 1 Pair 14AWG (7x22) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF THHN OR THWN 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	No. of Elements	Size	Stranding	Material
Pair(s)	1	14 AWG	7x22	BC - Bare Copper

#### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.024 in (0.61 mm)	0.116 in (2.95 mm)	Black, White

#### 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	0.047 in (1.2 mm)	0.320 in (8.13 mm)	Yes

Overall Cable Diameter (Nominal):	0.320 in (8.13 mm)
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### Electrical Characteristics

#### Electricals

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
Pair(s)	2.6 Ohm/1000ft	48 pF/ft (160 pF/m)	102 pF/ft (335 pF/m)	8 Amps per conductor at 25°C

#### Voltage

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

### Mechanical Characteristics

#### Temperature

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

#### Bend Radius

Stationary Min.	Installation Min.

3.9 in (99 mm) 3.9 in (99 mm)

Max. Pull Tension: 200 lbs (91 kg)

Bulk Cable Weight: 65 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, THHN, THWN

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: 0.511 Revision Date: 12-20-2024

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