Belden

Product: 3081A

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

Request Sample

Product Description

UL Instrumentation, 1 Triad 14AWG (7x22) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC-ER 150V NPLF THHN OR THWN-2 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
Conductor(s)	3	14 AWG	7x22	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.0225 in (0.572 mm)	0.116 in (2.95 mm)	Red, White, Black
				Black & White & Red

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)	0.359 in	Yes

Overall Cable Diameter (Nominal):	0.359 in

Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Max. Current
2.3 Ohm/1000ft	57 pF/ft (190 pF/m)	102 pF/ft (335 pF/m)	26 Amps per Conductor at 25ºC

Nom Outer Shield DCR:	3.4 Ohm/1000ft (11 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	-20°C to +90°C

Bend Radius

Stationary Min.	Installation Min.
4.308 in (109.4 mm)	4.308 in

Max. Pull Tension:	200 lbs (91 kg)
Bulk Cable Weight:	85 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL1685 UL Loading, T-29-520, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER, THWN-2
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)

Product Notes

Notes:	Alternate color coding available upon request.

History

Update and Revision:	Revision Number: 0.460 Revision Date: 10-07-2026

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