



Product: [61P1603](#) 

Inst PVC/PVC, 3 Pr #16 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, TC-ER
NPLF 90C Dry 75C Wet

Product Description

UL Instrumentation, 3 Pair 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, TC-ER 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, ...), encoders, control circuits, distributed control
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Pair(s)	3	16 AWG	7x24.5	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in mm	ICEA Chart E1

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.053 in (1.3 mm)	0.486 in	Yes

Overall Cable Diameter (Nominal):	0.486 in
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Max. Current
4.18 Ohm/1000ft	12.6 Amps per Conductor at 30°C

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature	Operating
90°C Dry, 75°C Wet	Wet/Dry: -30°C to 90°C

Bend Radius

Stationary Min.	Installation Min.
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5.832 in (148.1 mm)	5.832 in
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Max. Pull Tension:	155.4 lbs (70.49 kg)
Bulk Cable Weight:	119 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, UV Resistance, Burial
Flammability / Reaction to Fire:	UL 1685 UL Loading, IEEE 1202 FT4
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER
CEC / C(UL) Compliance:	.

History

Update and Revision:	Revision Number: 0.33 Revision Date: 08-07-2026
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Part Numbers

Variants

Item #	UPC
61P1603 0105000	612825363347

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