



Product: <u>1097A</u> ☑

Inst, 4 Tri #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, 4 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/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
Triad(s)	4	16 AWG	7x24	BC - Bare Copper

Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.022 in (0.56 mm)	0.101 in (2.57 mm)	ICEA Chart E1

Inner Shield

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

Outer Shield

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

Outer Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.064 in (1.6 mm)	0.646 in (16.4 mm)	Yes
Overall Cable Diameter (Nominal):	0.646 in (16.4 n	nm)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Triad(s)	4.36 Ohm/1000ft	4.99 Ohm/1000ft (16.4 Ohm/km)	9 Amps per conductor @ 30°C

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature Op

Bend Radius

Stationary Min.	Installation Min.
7.8 in (200 mm)	7.8 in (200 mm)
Max. Pull Tensior	n: 487 lbs
Bulk Cable Weigh	nt: 245 lbs

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial	
Flammability / Reaction to Fire:	L 1685 FT4 Loading, FT4, IEEE 1202 FT4	
NEC / UL Compliance:	Article 336, Article 760, NPLF, TC-ER	
European Directive Compliance:	EU CE Mark, 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: 0.612 Revision Date: 01-04-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1097A 0105000	Black	Reel	5,000 ft	612825106593	CZ

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