



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

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	Number of Element	AWG	Stranding	Material
Triad(s)	4	16	7x24	BC - Bare Copper

Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code
Triad(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.017 in (0.43 mm)	0.101 in (2.57 mm)	Black, White, Red and Numbered

Inner Shield Material

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

Outer Shield Material

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

Outer Jacket Material

Material	Inickness	Nom. Diameter	Ripcora
PVC - Polyvinyl Chloride	0.064 in (1.6 mm)	0.646 in	Yes
Cable Diameter (Nominal):	0.646 in (16.4 mr	m)	

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR
Triad(s)	3.67 Ohm/1000ft (12.0 Ohm/km)	4.99 Ohm/1000ft (16.4 Ohm/km)
Nom. Out	ter Shield DCR: 3.07 Ohm/1000f	t

Voltage

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min
7.8 in (200 mm)	7.8 in (200 mm)

Max. Pull Tension:	554 lbs (251 kg)
Bulk Cable Weight:	245 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial	
Flammability / Fire Resistance:	UL1685 (FT4 Loading), FT4, 1202	
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)	
Other Standard Compliance(s):	ICEA S-73-532, S-61-402	

History

Update and Revision:	Revision Number: 0.393 Revision Date: 06-08-2021

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