



Product: [1099A](#)

Inst, 12 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, 12 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
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Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Triad(s)	12	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)	Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC	each triad

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	0.089 in (2.3 mm)	1.065 in (27.05 mm)	Yes

Overall Cable Diameter (Nominal):	1.065 in (27.05 mm)
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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)	7 Amps per conductor @ 30°C

Voltage

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

Mechanical Characteristics

Temperature

UL Temperature	Operating
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90°C Dry, 90°C Wet	-30°C to 90°C Dry/Wet
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Bend Radius

Stationary Min.	Installation Min.
12.8 in (325 mm)	12.8 in (325 mm)

Max. Pull Tension:	1343 lbs (609.2 kg)
Bulk Cable Weight:	674 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial
Flammability / Reaction to Fire:	UL 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: 0.625 Revision Date: 01-04-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1099A 0102000	Black	Reel	2,000 ft	612825106753	C Z
1099A 0102500	Black	Reel	2,500 ft	612825106760	C Z

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