




Product: [1042A](#) 

Inst, 12 Pr #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 Pair 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/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 system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners
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Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	12	16	7x24	BC - Bare Copper

Insulation

Element	Material	Thickness [in.]	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.022	Black, White and Numbered

Inner Shield Material

Element	Shield Type	Material	Coverage	Drainwire Type
Pair(s)	Tape	Alum / Poly	100%	18 AWG (7x26) TC

Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Alum / Poly	100%	16 AWG (7x24) TC

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.084 in	0.907 in	Yes

Cable Diameter (Nominal):	0.907 in
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Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Pair(s)	4.2 Ohm/1000ft	3.6 Amps per conductor @ 30C

Nom Outer Shield DCR:	3.14 Ohm/1000ft
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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.
9.1 in	10.9 in

Max. Pull Tension:	483 lbs
Bulk Cable Weight:	453.6 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, EU Directive 2011/65/EU (ROHS II), 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: 0.382 Revision Date: 07-28-2020
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