



REPRESENTATIVE IMAGE

Product: [1052A](#)

Inst, 16 Pr #18 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, 16 Pair 18AWG (7x26) 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, ...), encoders, control circuits, distributed control system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

Construction Details

Conductor

Element	Number of Element	AWG	Stranding	Material
Pair(s)	16	18	7x26	BC - Bare Copper

Insulation

Element	Material	Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.016 in (0.41 mm)	0.088 in (2.2 mm)	Black, White Numbered

Inner Shield Material

Element	Shield Type	Material	Coverage	Drainwire Type	Notes
Pair(s)	Tape	Bi-Laminate (Alum+Poly)	100%	20 AWG (7x28) TC	each pair, extra polyester tape for isolation

Outer Shield Material

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	18 AWG (7x26) TC

Outer Jacket Material

Material	Thickness	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.084 in (2.1 mm)	0.898 in	Yes

Cable Diameter (Nominal): 0.898 in (22.8 mm)

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Pair(s)	5.86 Ohm/1000ft (19.2 Ohm/km)	2.6 Amps per conductor @ 30C

Nom. Outer Shield DCR: 5.07 Ohm/1000ft

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.
10.8 in (274 mm)	10.8 in (274 mm)

Max. Pull Tension:	415 lbs (188 kg)
Bulk Cable Weight:	447 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 (WC57), S-61-402

History

Update and Revision:	Revision Number: 0.397 Revision Date: 06-08-2021
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