



# Product: <u>1045A</u>

Inst, 24 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, 24 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/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
Suitable Applications:	system (DCS),programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

## **Construction Details**

# Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	24	16 AWG	7x24	BC - Bare Copper

# Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(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	
Pair(s)	air(s) Tape Bi-Laminate (		100%	18 AWG (7x26) TC	each pair	

# 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	0.084 in (2.1 mm) 1.244 in (31.60 mm)	Yes
Overall Cable Diameter (Nominal):	1.244 in (31.60 mm)	

# **Electrical Characteristics**

### Electricals

Element	Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Pair(s)	4.2 Ohm/1000ft	5.49 Ohm/1000ft (18.0 Ohm/km)	6 Amps per conductor @ 30°C

#### Voltage

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

## **Mechanical Characteristics**

Temperature

UL Temperature

#### Bend Radius

Stationary Min.	Installation Min.
14.9 in (378 mm)	14.9 in (378 mm)
Max. Pull Tension:	: 1772 lbs
Bulk Cable Weight	t: 899 lbs/

# **Standards and Compliance**

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial					
Flammability / Reaction to Fire:	to UL 1685 FT4 Loading, FT4, IEEE 1202 FT4					
NEC / UL Compliance:	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						

# History

#### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC
1045A 0101250	Black	Reel	1,250 ft	612825105312
1045A 0105000	Black	Reel	5,000 ft	612825105329

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