



**Product:** <u>1040A</u> ☑

Inst, 6 Pr #16 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER 150V NPLF 90C Dry/Wet

## **Product Description**

UL Instrumentation, 6 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 system (DCS), programmable logic controller (PLC), Solenoids, Valves, Actuators, Positioners

#### **Construction Details**

#### Conductor

Element	Number of Element	Size	Stranding	Material
Pair(s)	6	16 AWG	7x24	BC - Bare Copper

#### Insulation

Element Material		Nom. Thickness	Color Code	
Pair(s)	PVC/Nylon - Polyvinyl Chloride + Nylon	0.017 in (0.43 mm)	Black, White and Numbered	

### Inner Shield

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

### Outer Shield

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

### Outer Jacket

Material	Nom. Thickness Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.064 in (1.6 mm) 0.670 in (17.0 mm)	Yes
Overall Cable Diameter (Nominal):	0.670 in (17.0 mm)	

# **Electrical Characteristics**

### Electricals

Element	Nom. Conductor DCR
Pair(s)	3.67 Ohm/1000ft (12.0 Ohm/km)

### Voltage

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

## **Mechanical Characteristics**

### Temperature

UL Temperature Operating

90°C Dry, 90°C Wet | -30C to 90C Dry, 75C wet

#### **Bend Radius**

Stationary Min.	Installation Min.		
8.0 in (200 mm)	8.0 in (200 mm)		

Max. Pull Tension:	428 lbs (194 kg)
Bulk Cable Weight:	264 lbs/1000ft

## **Standards and Compliance**

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Burial			
Flammability / Reaction to Fire:	UL1685 (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)			
Other Standard Compliance(s):	07-KA080011-MSHA, ICEA S-73-532, S-61-402			

## **History**

Update and Revision:	Revision Number: 0.407 Revision Date: 02-08-2022
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#### **Part Numbers**

#### Variants

Item #	Color	Putup Type	Length	UPC
1040A 0105000	Black	Reel	5,000 ft	612825105213

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