



# Product: <u>1041A</u> 2

Inst, 8 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, 8 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	No. of Elements	Size	Stranding	Material
Pair(s)	8	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)	Таре	Bi-Laminate (Alum+Poly)	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 No	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.064 in (1.6 mm) 0.72	725 in (18.4 mm)	Yes
Overall Cable Diameter (Nominal):	0.725 in (18.4 mm)		

# **Electrical Characteristics**

### Electricals

Eleme	nt Nom. Conductor DCR	Nom. Inner Shield DCR	Max. Current
Pair(s	4.2 Ohm/1000ft	5.49 Ohm/1000ft (18.0 Ohm/km)	9 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	on Min.
8.7 in (220 mm) 8.7 in (22	0 mm)
Max. Pull Tension:	629 lbs (285 kg)
Bulk Cable Weight:	323 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)
Other Standard Compliance(s):	07-KA080011-MSHA
History	

#### History

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Update and Revision:	Revision Number: 0.616 Revision Date: 01-04-2024
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#### **Part Numbers**

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	Item #	Color	Putup Type	Length	UPC	Footnote	
	1041A 0105000	Black	Reel	5,000 ft	612825105237	CZ	

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