



**Product:** [1040A](#)

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

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## 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

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
16	7x24	BC - Bare Copper	6

Conductor Count:	12
Total Number of Pairs:	6

#### Insulation

Material
PVC/Nylon - Polyvinyl Chloride/Nylon Skin

#### Color Chart

Number	Color
1	Black & White and Numbered 1
2	Black & White and Numbered 2
3	Black & White and Numbered 3
4	Black & White and Numbered 4
5	Black & White and Numbered 5
6	Black & White and Numbered 6

#### Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	18	7x26
	TC - Tinned Copper					

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Alum / Poly	Beldfoil®	100 %	TC - Tinned Copper	16	7x24

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.67 in	0.064 in	Yes

### Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
5.07 Ohm/1000ft	3.67 Ohm/1000ft	3.01 Ohm/1000ft

#### Inductance

<b>Nominal Inductance</b>
0.182 µH/ft

#### Impedance

<b>Nominal Characteristic Impedance</b>
50 Ohm

#### Voltage

<b>UL Voltage Rating</b>
150 V RMS (Type NPLF)

#### Temperature Range

UL Temp Rating:	75°C Dry, 90°C Wet
Operating Temp Range:	Wet: -30°C To +75°C , Dry: -30°C To +90°C
Wet Temp Range:	-30°C To +75 °C
Dry Temp Range:	-30°C To +90 °C

#### Mechanical Characteristics

Bulk Cable Weight:	200 lbs/1000ft
Max Recommended Pulling Tension:	428 lbs
Min Bend Radius/Minor Axis:	6.7 in

#### Standards

NEC/(UL) Specification:	NPLF, TC-ER
Other Specification:	ICEA S-73-532, S-61-402

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

#### Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 UL Loading
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Part Number

#### Variants

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

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

#### Product Notes

Notes:	Alternate color coding available upon request.
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## History

Update and Revision:

Revision Number: 0.341 Revision Date: 04-28-2020

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