



**Product:** [1094A](#)

Inst, 8 Tri #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry 75C Wet

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**Product Description**

UL Instrumentation, 8 Triad 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 75C Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Triads
18	7x26	BC - Bare Copper	8

Conductor Count:	24
Total Number of Triads:	8

**Insulation**

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon Skin	0.088 in

**Color Chart**

Number	Color
1	Black and Red and White and Printed #1
2	Black and Red and White and Printed #2
3	Black and Red and White and Printed #3
4	Black and Red and White and Printed #4
5	Black and Red and White and Printed #5
6	Black and Red and White and Printed #6
7	Black and Red and White and Printed #7
8	Black and Red and White and Printed #8

**Color Chart 2**

Number	Color
1	Black & White & Red and Numbered 1
2	Black & White & Red and Numbered 2
3	Black & White & Red and Numbered 3
4	Black & White & Red and Numbered 4
5	Black & White & Red and Numbered 5
6	Black & White & Red and Numbered 6
7	Black & White & Red and Numbered 7
8	Black & White & Red and Numbered 8

**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	20	7x28

**Outer Shield Material**

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

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.738 in	0.064 in	Yes

## Construction and Dimensions

#### Stranding

##### Twists

4.8 twist/ft

#### Cabling

##### Twists

1.32 twist/ft

## Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR	Nominal Outer Shield DCR
5.86 Ohm/1000ft	7.11 Ohm/1000ft	4.22 Ohm/1000ft

#### Voltage

##### UL Voltage Rating

600 V RMS

150 V RMS (Type NPLF)

## Temperature Range

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

## Mechanical Characteristics

Bulk Cable Weight:	311.5 lbs/1000ft
Max Recommended Pulling Tension:	672 lbs
Min Bend Radius/Minor Axis:	7.5 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 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

## Part Number

### Variants

Item #	Color	Putup Type	Length	UPC
1094A 0105000	Black	Reel	5,000 ft	612825106364

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: Triad groups are numbered for ease of identification. Alternate color coding available upon request.

## History

Update and Revision: Revision Number: 0.338 Revision Date: 04-28-2020

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