



Product: [1096A](#)

Inst, 24 Tri #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC 150V NPLF TFN

[Request Sample](#)

Product Description

UL Instrumentation, 24 Triad 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF TFN 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	24

Conductor Count:	72
Total Number of Triads:	24

Insulation

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

Color Chart

Number	Color
1	Black printed #1
2	Black printed #2
3	Black printed #3
4	Black printed #4
5	Black printed #5
6	Black printed #6
7	Black printed #7
8	Black printed #8
9	Black printed #9
10	Black printed #10
11	Black printed #11
12	Black printed #12
13	Black printed #13
14	Black printed #14
15	Black printed #15
16	Black printed #16
17	Black printed #17
18	Black printed #18
19	Black printed #19
20	Black printed #20
21	Black printed #21
22	Black printed #22
23	Black printed #23
24	Black printed #24

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
9	Black & White & Red and numbered 9
10	Black & White & Red and numbered 10
11	Black & White & Red and numbered 11
12	Black & White & Red and numbered 12
13	Black & White & Red and numbered 13
14	Black & White & Red and numbered 14
15	Black & White & Red and numbered 15
16	Black & White & Red and numbered 16
17	Black & White & Red and numbered 17
18	Black & White & Red and numbered 18
19	Black & White & Red and numbered 19
20	Black & White & Red and numbered 20
21	Black & White & Red and numbered 21
22	Black & White & Red and numbered 22
23	Black & White & Red and numbered 23
24	Black & White & Red and numbered 24

Inner Shield

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	7x28

Outer Shield

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

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.291 in	0.084 in	Yes

Construction and Dimensions

Stranding

Twists

4.8 twist/ft

Cabling

Twists

0.77 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 Ohm/1000ft

Current

Max. Recommended Current [A]

5 Amps per Conductor at 25°C

Voltage

UL Voltage Rating

600 V RMS

150 V RMS (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:	860 lbs/1000ft
Max. Pull Tension:	1971 lbs
Min. Bend Radius/Minor Axis:	13 in

Standards

NEC/(UL) Compliance:	NPLF, TC
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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LS0H, 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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Product Notes

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

Update and Revision:	Revision Number: 0.273 Revision Date: 12-15-2021
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