



**Product:** [3066A](#)

Inst, 16 Tri #18 Str BC, PVC-NYL Ins E1, IS/OS, Blk PVC Jkt, 600V TC-ER  
150V NPLF 90C Dry 75C Wet

[Request Sample](#)

**Product Description**

UL Instrumentation, 16 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	16

Conductor Count:	48
Total Number of Triads:	16

**Insulation**

Material	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride + Nylon	0.088 in

**Color Chart**

Number	Color
1	Black and White and Red and Numbered 1
2	Black and White and Red and Numbered 2
3	Black and White and Red and Numbered 3
4	Black and White and Red and Numbered 4
5	Black and White and Red and Numbered 5
6	Black and White and Red and Numbered 6
7	Black and White and Red and Numbered 7
8	Black and White and Red and Numbered 8
9	Black and White and Red and Numbered 9
10	Black and White and Red and Numbered 10
11	Black and White and Red and Numbered 11
12	Black and White and Red and Numbered 12
13	Black and White and Red and Numbered 13
14	Black and White and Red and Numbered 14
15	Black and White and Red and Numbered 15
16	Black and White and Red and Numbered 16

**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

#### Inner Shield Material

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

#### Outer Shield Material

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

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.041 in	0.083 in	Yes

## Construction and Dimensions

#### Stranding

##### Twists

4.8 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	5.52 Ohm/1000ft

#### Current

##### Max. Recommended Current [A]

5 Amps per Conductor at 25°C

#### 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:	608 lbs/1000ft
Max. Pull Tension:	1322 lbs
Min Bend Radius/Minor Axis:	10.5 in

## Standards

NEC/(UL) Compliance:	NPLF, TC-ER
----------------------	-------------

## 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 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

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

### Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

### Product Notes

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

### History

Update and Revision:	Revision Number: 0.200 Revision Date: 10-20-2020
----------------------	--

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.