




**Product:** [3090A](#) 

Inst, 1 Pr #16 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, 600V TC 150V  
NPLF 90C Dry

 [Request Sample](#)

## Product Description

UL Instrumentation, 1 Pair 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, 600V TC 150V NPLF 90C Dry 75C Wet SUN RES DIR BUR

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	16	7x24	BC - Bare Copper	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Element	Material
Pair(s)	PVC/Nylon - Polyvinyl Chloride/Nylon Skin

#### Color Chart

Number	Color
1	Black & White

#### 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	18	7x26

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	0.3 in	0.047 in	Yes

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor Loop DCR	Nominal Outer Shield DCR
3.67 Ohm/1000ft	17.32 Ohm/1000ft	4.99 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
50 pF/ft	87 pF/ft

#### Inductance

Nominal Inductance
0.091 µH/ft

#### Voltage

UL Voltage Rating
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: -25°C To +90°C
Wet Temp Range:	-30°C To +75 °C
Dry Temp Range:	-25°C To +90 °C

Mechanical Characteristics

Bulk Cable Weight:	45.4 lbs/1000ft
Max Recommended Pulling Tension:	105 lbs
Min Bend Radius/Minor Axis:	1.2 in

Standards

NEC/(UL) Specification:	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 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 RoHS Compliance Date (yyyy-mm-dd):	2005-04-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	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
3090A 0102500	Black	Reel	2,500 ft	612825141204
3090A 0105000	Black	Reel	5,000 ft	612825141211
3090A 01010000	Black	Reel	10,000 ft	612825141198

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. Transmission Characteristics: L/R Ratio of Pair (R in Series) 12 microhenries/Ohm.
--------	---

History

Update and Revision:	Revision Number: 0.324 Revision Date: 05-11-2020
----------------------	--

© 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.