



Part Number: 1090A

Inst, 50 Pr #16 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, 600V TC 150V NPLF TFN

[Request Sample](#)

Product Description

UL Instrumentation, 50 Pair 16AWG (7x24) Bare Copper, PVC-NYL Insulation E1 Color Code, 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 Pairs
16	7x24	BC - Bare Copper	50

Conductor Count:	100
Total Number of Pairs:	50
Total Number of Triads:	N/A
Conductor Size:	16 AWG

Insulation

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride/Nylon	0.101 in

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
7	Black & White and Numbered 7
8	Black & White and Numbered 8
9	Black & White and Numbered 9
10	Black & White and Numbered 10
11	Black & White and Numbered 11
12	Black & White and Numbered 12
13	Black & White and Numbered 13
14	Black & White and Numbered 14
15	Black & White and Numbered 15
16	Black & White and Numbered 16
17	Black & White and Numbered 17
18	Black & White and Numbered 18
19	Black & White and Numbered 19
20	Black & White and Numbered 20
21	Black & White and Numbered 21
22	Black & White and Numbered 22
23	Black & White and Numbered 23
24	Black & White and Numbered 24

25	Black & White and Numbered 25
26	Black & White and Numbered 26
27	Black & White and Numbered 27
28	Black & White and Numbered 28
29	Black & White and Numbered 29
30	Black & White and Numbered 30
31	Black & White and Numbered 31
32	Black & White and Numbered 32
33	Black & White and Numbered 33
34	Black & White and Numbered 34
35	Black & White and Numbered 35
36	Black & White and Numbered 36
37	Black & White and Numbered 37
38	Black & White and Numbered 38
39	Black & White and Numbered 39
40	Black & White and Numbered 40
41	Black & White and Numbered 41
42	Black & White and Numbered 42
43	Black & White and Numbered 43
44	Black & White and Numbered 44
45	Black & White and Numbered 45
46	Black & White and Numbered 46
47	Black & White and Numbered 47
48	Black & White and Numbered 48
49	Black & White and Numbered 49
50	Black & White and Numbered 50

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
PVC - Polyvinyl Chloride	1.588 in	0.084 in	Yes

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
3.67 Ohm/1000ft	2.84 Ohm/1000ft

Voltage

UL Voltage Rating
600 V RMS
150 V RMS

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:	1380 lbs/1000ft
Max Recommended Pulling Tension:	3606 lbs
Min Bend Radius/Minor Axis:	15.5 in

Standards

NEC/(UL) Specification:	NPLF, TC
-------------------------	----------

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
CA Prop 65 (CJ for Wire & Cable):	Yes
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

Plenum/Non-Plenum

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

Product Notes

Notes:	Alternate color coding available upon request.
--------	--

© 2019 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.