



**Product:** [61P1836](#)

Inst PVC/PVC, 36 Pr #18 Str BC, PVC-NYL Ins E1, OS, Blk PVC Jkt, TC NPLF 90C Dry 75C Wet

**Product Description**

UL Instrumentation, 36 Pair 18AWG (7x26) Bare Copper, PVC-NYL Insulation E1 Color Code, Overall Beldfoil® Shield, Black PVC Outer Jacket, TC 90C Dry 75C Wet SUN RES DIR BUR

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

AWG	Stranding	Material	No. of Pairs
18	7x26	BC - Bare Copper	36

Conductor Count:	72
Total Number of Pairs:	36

**Insulation**

Material	Nominal Diameter
PVC/Nylon - Polyvinyl Chloride + Nylon	0.087 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
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18	Black & White and Numbered 18
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21	Black & White and Numbered 21
22	Black & White and Numbered 22
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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

#### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22

#### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	1.176 in	0.085 in

## Electrical Characteristics

#### Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
7.46 Ohm/1000ft	5.86 Ohm/1000ft

#### Current

Max. Recommended Current [A]
2.1 Amps per Conductor at 30°C

#### Voltage

UL Voltage Rating
600 V RMS
150 V RMS (Type NPLF)

## Temperature Range

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

## Mechanical Characteristics

UV Resistance:	Yes
Bulk Cable Weight:	729 lbs/1000ft
Max. Pull Tension:	938 lbs
Min Bend Radius (Overall):	11.8 in

## Standards

NEC/(UL) Compliance:	NPLF, TC-ER
Other Compliance:	ICEA S-73-532, S-95-658, 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
CA Prop 65:	Yes

## Suitability

Suitability - Burial:	Yes
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	UL 1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

### Variants

Item #	Putup Type	UPC
61P1836 0105000	Reel	612825366089

Footnote:	600 V Tray Cable or Non-Power Limited Fire Protective Signaling Cable - 36 Pair 18 AWG (7X26) Bare Copper, PVC/Nylon Insulation, Individual Beldfoil® Shield With 20 AWG Tinned Copper Drain Wire, Overall Beldfoil® Shield With 20 AWG Tinned Copper Drain Wi
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## History

Update and Revision:	Revision Number: 0.29 Revision Date: 02-16-2021
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