

# Detailed Specifications & Technical Data

## METRIC MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

**83029 Hook-up/Lead - UL AWM Style 1180**



For more Information  
please call

1-800-Belden1



### General Description:

Stranded silver-coated copper conductor insulation with extruded TFE Teflon.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
1	18	19x30	SPC - Silver Plated Copper

Total Number of Conductors:

1

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
TFE - Tetrafluoroethylene	0.381

### Overall Insulation

#### Overall Cable

Overall Nominal Diameter:

1.981 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range:

-70°C To +200°C

Bulk Cable Weight:

12.650 Kg/Km

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

UL Rating:

300 V RMS, 200°C

EU Directive 2011/65/EU (ROHS II):

Yes

EU CE Mark:

Yes

EU Directive 2000/53/EC (ELV):

Yes

EU Directive 2002/95/EC (RoHS):

Yes

EU RoHS Compliance Date (mm/dd/yyyy):

04/01/2005

EU Directive 2002/96/EC (WEEE):

Yes

EU Directive 2003/11/EC (BFR):

Yes

CA Prop 65 (CJ for Wire & Cable):

Yes

MII Order #39 (China RoHS):

Yes

Military Specification:

NEMA HP3, MIL-W-16878/5 (Except For Stranding)

MIL Spec Rating:

1000 V, 200°C

#### Flame Test

UL Flame Test:

VW-1

#### Plenum/Non-Plenum

Plenum (Y/N):

No

### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
18.866

#### Max. Operating Voltage - UL:

Voltage	Description
300V RMS	UL AWM 1180

#### Max. Operating Voltage - Other:

Voltage	Description

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### 83029 Hook-up/Lead - UL AWM Style 1180

1000 Vrms | Mil-W-16878/5

#### Max. Recommended Current:

Description	Current
Mil-Std-975M Table 3.16 (single wire)	9.2 A

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83029 001100	100 FT	0.900 LB	BROWN		#18 STR TFE BRN
83029 0011000	1,000 FT	10.000 LB	BROWN	S W	#18 STR TFE BRN
83029 002100	100 FT	0.900 LB	RED		#18 STR TFE RED
83029 0021000	1,000 FT	10.000 LB	RED	S W	#18 STR TFE RED
83029 002500	500 FT	5.000 LB	RED	S W	#18 STR TFE RED
83029 003100	100 FT	0.900 LB	ORANGE		#18 STR TFE ORG
83029 0031000	1,000 FT	10.000 LB	ORANGE	S W	#18 STR TFE ORG
83029 004100	100 FT	0.900 LB	YELLOW		#18 STR TFE YEL
83029 0041000	1,000 FT	10.000 LB	YELLOW	S W	#18 STR TFE YEL
83029 005100	100 FT	0.900 LB	GREEN, DARK		#18 STR TFE GRNDK
83029 0051000	1,000 FT	10.000 LB	GREEN, DARK	S W	#18 STR TFE GRNDK
83029 005500	500 FT	5.000 LB	GREEN, DARK	S W	#18 STR TFE GRNDK
83029 006100	100 FT	0.900 LB	BLUE, LIGHT		#18 STR TFE BLULT
83029 0061000	1,000 FT	10.000 LB	BLUE, LIGHT	S W	#18 STR TFE BLULT
83029 006500	500 FT	5.000 LB	BLUE, LIGHT	S W	#18 STR TFE BLULT
83029 007100	100 FT	0.900 LB	VIOLET		#18 STR TFE VIO
83029 0071000	1,000 FT	10.000 LB	VIOLET	S W	#18 STR TFE VIO
83029 008100	100 FT	0.900 LB	GRAY		#18 STR TFE GRY
83029 0081000	1,000 FT	10.000 LB	GRAY	S W	#18 STR TFE GRY
83029 0091000	1,000 FT	10.000 LB	WHITE	S W	#18 STR TFE WHT
83029 009500	500 FT	5.000 LB	WHITE	S W	#18 STR TFE WHT
83029 010100	100 FT	0.900 LB	BLACK		#18 STR TFE BLK
83029 0101000	1,000 FT	10.000 LB	BLACK	S W	#18 STR TFE BLK
83029 010500	500 FT	5.000 LB	BLACK	S W	#18 STR TFE BLK

#### Notes:

S = STRIPING ADDERS FOR TYPES E AND EE: 123 STRIPES. MINIMUM ORDER 10

W = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 75'

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