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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 (in.) |
|---------------------------|----------------------|
| TFE - Tetrafluoroethylene | .015                 |

#### Overall Insulation

#### Overall Cable

Overall Nominal Diameter: 0.078 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 8.500 lbs/1000 ft.

### 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/1000 ft) |
|--------------------------|
| 5.750                    |

### Max. Operating Voltage - UL:

| Voltage  | Description |
|----------|-------------|
| 300V RMS | UL AWM 1180 |

### Max. Operating Voltage - Other:

| Voltage   | Description   |
|-----------|---------------|
| 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 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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## 83029 Hook-up/Lead - UL AWM Style 1180

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