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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            | 16  | 19x29     | 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: 0.088 in.

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 11 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) |
|--------------------------|
| 4.000                    |

Max. Operating Voltage - UL:

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

Max. Operating Voltage - Other:

| Voltage | Description |
|---------|-------------|
|---------|-------------|

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

83030 Hook-up/Lead - UL AWM Style 1180

1000V RMS Mil-W-16878/5

Max. Recommended Current:

| Description                           | Current |
|---------------------------------------|---------|
| Mil-Std-975M Table 3.16 (single wire) | 13 amps |

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc         |
|---------------|----------|-------------|-------------|-------|-------------------|
| 83030 001100  | 100 FT   | 1.300 LB    | BROWN       |       | #16 STR TFE BRN   |
| 83030 0011000 | 1,000 FT | 12.000 LB   | BROWN       | S W   | #16 STR TFE BRN   |
| 83030 002100  | 100 FT   | 1.300 LB    | RED         |       | #16 STR TFE RED   |
| 83030 0021000 | 1,000 FT | 12.000 LB   | RED         | S W   | #16 STR TFE RED   |
| 83030 003100  | 100 FT   | 1.300 LB    | ORANGE      |       | #16 STR TFE ORG   |
| 83030 0031000 | 1,000 FT | 12.000 LB   | ORANGE      | S W   | #16 STR TFE ORG   |
| 83030 004100  | 100 FT   | 1.300 LB    | YELLOW      |       | #16 STR TFE YEL   |
| 83030 0041000 | 1,000 FT | 12.000 LB   | YELLOW      | S W   | #16 STR TFE YEL   |
| 83030 005100  | 100 FT   | 1.300 LB    | GREEN, DARK |       | #16 STR TFE GRNDK |
| 83030 0051000 | 1,000 FT | 12.000 LB   | GREEN, DARK | S W   | #16 STR TFE GRNDK |
| 83030 006100  | 100 FT   | 1.300 LB    | BLUE, LIGHT |       | #16 STR TFE BLULT |
| 83030 0061000 | 1,000 FT | 12.000 LB   | BLUE, LIGHT | S W   | #16 STR TFE BLULT |
| 83030 007100  | 100 FT   | 1.300 LB    | VIOLET      |       | #16 STR TFE VIO   |
| 83030 0071000 | 1,000 FT | 12.000 LB   | VIOLET      | S W   | #16 STR TFE VIO   |
| 83030 008100  | 100 FT   | 1.300 LB    | GRAY        |       | #16 STR TFE GRY   |
| 83030 0081000 | 1,000 FT | 12.000 LB   | GRAY        | S W   | #16 STR TFE GRY   |
| 83030 009100  | 100 FT   | 1.300 LB    | WHITE       |       | #16 STR TFE WHT   |
| 83030 0091000 | 1,000 FT | 12.000 LB   | WHITE       | S W   | #16 STR TFE WHT   |
| 83030 009500  | 500 FT   | 6.000 LB    | WHITE       | S W   | #16 STR TFE WHT   |
| 83030 010100  | 100 FT   | 1.300 LB    | BLACK       |       | #16 STR TFE BLK   |
| 83030 0101000 | 1,000 FT | 12.000 LB   | BLACK       | S W   | #16 STR TFE BLK   |
| 83030 010500  | 500 FT   | 6.000 LB    | BLACK       | S W   | #16 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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