

7417W Multi-Conductor - 600V FCC Control Cables for Moderate Flexing



For more Information
please call

1-800-Belden1



General Description:

18 AWG stranded (16x30) bare copper conductors, PVC-Nylon insulation, unshielded, oil- and abrasion-resistant TPE jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 24 | 18 | 16x30 | BC - Bare Copper |

Total Number of Conductors: 25

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 18

Ground Wire Stranding: 16x30

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC/Nylon - Polyvinyl Chloride/Nylon

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.381 |
| Nylon | 0.127 |

Insulation Color Code Chart:

| Color | Description |
|-------|-----------------------|
| Black | Individually Numbered |

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|-------------------------------|--------------------------|
| TPE - Thermoplastic Elastomer | 1.600 |

Overall Cable

Overall Nominal Diameter: 17.221 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Other Temperature Range: Flexing: -5°C To +90°C

UL Temperature Rating: 90°C (UL AWM Style 2587)

Bulk Cable Weight: 389.908 Kg/Km

Max. Recommended Pulling Tension: 2557.715 N

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| | |
|--|------------------|
| Min. Bend Radius (Continuous Flexing): | 172.720 mm |
| Flex Cycle Rating: | 1 Million Flexes |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|--|
| NEC/(UL) Specification: | TC-ER, WTTTC |
| CEC/C(UL) Specification: | 600V Type CIC TC |
| AWM Specification: | UL Style 2587 (600 V 90°C), UL Style 21486 (1000 V 90°C) |
| CSA Specification: | AWM I/II A/B |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU REACH SVHC Present: | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flame Test

| | |
|-------------------|---|
| UL Flame Test: | UL1685 FT4/IEEE 1202 Vertical Tray Flame Test |
| C(UL) Flame Test: | FT4 |
| IEEE Flame Test: | 1202 |

Suitability

| | |
|-----------------------|------------------|
| Suitability - Burial: | Yes |
| Sunlight Resistance: | Yes |
| Oil Resistance: | Yes - Oil Res II |
| Non-halogenated: | No |

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Conductor DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 21.3265 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|--------------------------|
| 7417W 0601000 | 1,000 FT | 277.000 LB | CHROME | C | 24 #18 + GRD PVC/NYL TPE |
| 7417W 060250 | 250 FT | 75.500 LB | CHROME | C | 24 #18 + GRD PVC/NYL TPE |

Notes:

C = CRATE REEL PUT-UP.

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METRIC MEASUREMENT VERSION

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