

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7416W Multi-Conductor - 600V FCC Control Cables for Moderate Flexing



For more Information
please call

1-800-Belden1



Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 17 | 18 | 16x30 | BC - Bare Copper |

Total Number of Conductors: 18

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 (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | 0.015 |
| Nylon | 0.005 |

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.063 |

Overall Cable

Overall Nominal Diameter: 0.576 in.

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 195 lbs/1000 ft.

Max. Recommended Pulling Tension: 414 lbs.

Min. Bend Radius (Continuous Flexing): 5.800 in.

Flex Cycle Rating: 1 Million Flexes

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: TC-ER, WTTC

CSA Specification: AWM I/II A/B

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

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: UL1277, UL1685 FT4/IEEE 1202 Vertical Tray Flame Test

C(UL) Flame Test: FT4

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/1000 ft)

6.5

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|--------|-------|--------------------------|
| 7416W 0601000 | 1,000 FT | 210.000 LB | CHROME | C | 17 #18 + GRD PVC/NYL TPE |
| 7416W 060250 | 250 FT | 57.750 LB | CHROME | C | 17 #18 + GRD PVC/NYL TPE |

Notes:

C = CRATE REEL PUT-UP.

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