

## 7401W Multi-Conductor - 600V FCC Control Cables for Moderate Flexing



For more Information  
please call

1-800-Belden1



### General Description:

20 AWG stranded (10x30) bare copper conductors plus stranded (10x30) bare copper ground wire, PVC insulation, Unshielded, Oil- and Abrasion-resistant TPE Jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 2            | 20  | 10x30     | BC - Bare Copper   |

#### Insulation

##### Insulation Material:

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

##### 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 | 0.940                    |

#### Overall Cable

Overall Nominal Diameter: 5.613 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:                     | 43.158 Kg/Km             |
| Max. Recommended Pulling Tension:      | 173.480 N                |
| Min. Bend Radius (Continuous Flexing): | 55.880 mm                |
| Flex Cycle Rating:                     | 1 Million Flexes         |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                         |                            |
|-------------------------|----------------------------|
| NEC/(UL) Specification: | PLTC                       |
| AWM Specification:      | UL Style 2587 (600 V 90°C) |
| CSA Specification:      | AWM I/II A/B               |

## METRIC MEASUREMENT VERSION

### 7401W Multi-Conductor - 600V FCC Control Cables for Moderate Flexing

|                                       |            |
|---------------------------------------|------------|
| 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 |
| CSA 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:

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 28.8728                    |

### Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color  | Notes | Item Desc           |
|---------------|----------|-------------|--------|-------|---------------------|
| 7401W 0601000 | 1,000 FT | 31.000 LB   | CHROME | C     | 2 #20 + GRD PVC TPE |
| 7401W 060250  | 250 FT   | 8.500 LB    | CHROME | C     | 2 #20 + GRD PVC TPE |
| 7401W 0605000 | 5,000 FT | 155.000 LB  | CHROME |       | 2 #20 + GRD PVC TPE |

#### Notes:

C = CRATE REEL PUT-UP.

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