

## 73804W Multi-Conductor - 600V Unshielded, Light to Moderate Flexing Applications Up to 1 Million Flex Life Cycles



For more Information  
please call

1-800-Belden1

### General Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 3            | 18  | 16x30     | BC - Bare Copper   |

Total Number of Conductors: 4

#### 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 - Polyvinyl Chloride

#### Insulation

##### Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.559               |

##### Insulation Color Code Chart:

| Color        | Description           |
|--------------|-----------------------|
| Black        | Individually Numbered |
| Yellow/Green | Ground                |

#### Outer Shield

##### Outer Shield Material:

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

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 0.889                    |

#### Overall Cable

Overall Nominal Diameter: 7.518 mm

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 157.749 Kg/Km

Max. Recommended Pulling Tension: 222.410 N

Min. Bend Radius/Minor Axis: 38.100 mm

Min. Bend/Installation: 38.100 mm

Min. Bend Radius (Continuous Flexing): 38.100 mm

Flex Cycle Rating: 1 Million Flexes

## METRIC MEASUREMENT VERSION

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|   |   |
|---|---|
| <b>AWM Specification:</b>                 | UL Style 2587 (600 V 90°C)  |
| <b>CSA Specification:</b>                 | 600 V AWM I/II A/B  |
| <b>EU Directive 2011/65/EU (ROHS II):</b> | Yes   |
| <b>MII Order #39 (China RoHS):</b>        | Yes   |
| <b>Other Specification:</b>               | VDE 0472, Section 803 Oil Test, EU Low Voltage Directive 2014/35/EC, EU Directive 2011/65/EU(RoHS2), REACH Regulation (EC 1907/2006), California Proposition 65 |

#### Flame Test

|                        |     |
|------------------------|-----|
| <b>CSA Flame Test:</b> | FT1 |
|------------------------|-----|

#### Suitability

|                              |     |
|------------------------------|-----|
| <b>Suitability - Burial:</b> | Yes |
|------------------------------|-----|

### Electrical Characteristics (Overall)

#### Nom. Inductance:

|                          |
|--------------------------|
| <b>Inductance (µH/m)</b> |
| 0.623                    |

#### Max. Capacitance Conductor to Conductor:

|                    |                           |
|--------------------|---------------------------|
| <b>Freq. (MHz)</b> | <b>Capacitance (pF/m)</b> |
| 0.001              | 101.711                   |

#### Nom. Conductor DC Resistance:

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 21.983                     |

#### Max. Operating Voltage - UL:

|                |
|----------------|
| <b>Voltage</b> |
| 600V           |

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                 |
|----------------|----------|-------------|-------|-------|---------------------------|
| 73804W 008100  | 100 FT   | 12.100 LB   | GRAY  |       | 18AWG 19/30 4C UNSHIELDED |
| 73804W 0081000 | 1,000 FT | 110.000 LB  | GRAY  |       | 18AWG 19/30 4C UNSHIELDED |
| 73804W 008500  | 500 FT   | 55.500 LB   | GRAY  |       | 18AWG 19/30 4C UNSHIELDED |

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