

## 73807W 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
6	18	16x30	BC - Bare Copper

Total Number of Conductors: 7

#### 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 (in.)
PVC - Polyvinyl Chloride	0.022

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 (in.)
PVC - Polyvinyl Chloride	0.035

#### Overall Cable

Overall Nominal Diameter: 0.351 in.

### Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 168 lbs/1000 ft.

Max. Recommended Pulling Tension: 88 lbs.

Min. Bend Radius/Minor Axis: 1.800 in.

Min. Bend/Installation: 1.800 in.

Min. Bend Radius (Continuous Flexing): 1.800 in.

Flex Cycle Rating: 1 Million Flexes

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 2587 (600 V 90°C)

CSA Specification: 600 V AWM I/II A/B

EU Directive 2011/65/EU (ROHS II): Yes

MIL Order #39 (China RoHS): Yes

Other Specification: 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

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### Flame Test

CSA Flame Test: FT1

### Suitability

Suitability - Burial: Yes

### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/ft)  
0.190

#### Max. Capacitance Conductor to Conductor:

Freq. (MHz)	Capacitance (pF/ft)
0.001	31.000

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
6.700

#### Max. Operating Voltage - UL:

Voltage  
600V

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
73807W 008100	100 FT	20.100 LB	GRAY		18AWG 19/30 7C UNSHIELDED
73807W 0081000	1,000 FT	173.000 LB	GRAY		18AWG 19/30 7C UNSHIELDED
73807W 008500	500 FT	88.000 LB	GRAY		18AWG 19/30 7C UNSHIELDED

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