

METRIC MEASUREMENT VERSION

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 (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: 8.915 mm

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 250.018 Kg/Km

Max. Recommended Pulling Tension: 391.442 N

Min. Bend Radius/Minor Axis: 45.720 mm

Min. Bend/Installation: 45.720 mm

Min. Bend Radius (Continuous Flexing): 45.720 mm

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

MII 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/m)
0.623

Max. Capacitance Conductor to Conductor:

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

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
21.983

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 |

Revision Number: 0 Revision Date: 09-27-2017

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