

METRIC MEASUREMENT VERSION

73809W 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
8	18	16x30	BC - Bare Copper

Total Number of Conductors: 9

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: 11.303 mm

Mechanical Characteristics (Overall)

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

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

Bulk Cable Weight: 446.460 Kg/Km

Max. Recommended Pulling Tension: 502.647 N

Min. Bend Radius/Minor Axis: 55.880 mm

Min. Bend/Installation: 55.880 mm

Min. Bend Radius (Continuous Flexing): 55.880 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
73809W 008100	100 FT	35.500 LB	GRAY		18AWG 19/30 9C UNSHIELDED
73809W 0081000	1,000 FT	302.000 LB	GRAY		18AWG 19/30 9C UNSHIELDED

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