

METRIC MEASUREMENT VERSION

77607W Multi-Conductor - 600V Unshielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information
please call

1-800-Belden1

General Description:

16 AWG stranded (168x38) bare copper conductors, PVC insulation, oil-resistant overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
6	16	168x38	BC - Bare Copper	1.702

Total Number of Conductors: 7

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 16

Ground Wire Stranding: 168x38

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC - Polyvinyl Chloride

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PVC - Polyvinyl Chloride	0.559	2.819

Insulation Color Code Chart:

Color	Description
Red	Individually Numbered
Yellow/Green	Ground

Outer Shield

Outer Shield Separator Material: Tissue Tape, 25% Overlap, Min.

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.016

Overall Cable

Overall Nominal Diameter: 12.141 mm

Mechanical Characteristics (Overall)

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

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

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

Bulk Cable Weight: 476.224 Kg/Km

Max. Recommended Pulling Tension: 658.334 N

Min. Bend Radius/Minor Axis: 96.520 mm

Min. Bend/Installation: 96.520 mm

Min. Bend Radius (Continuous Flexing): 96.520 mm

Flex Cycle Rating: 14 Million Flexes

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	THHN/THWN Singles
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
Other Specification:	AWM/STYLE 10012, AWM/STYLE 2587, AWM I/II A/B, FT1, 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

CSA Flame Test:	FT1
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Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)
0.591

Nom. Capacitance Cond. to Other Cond. & Ground:

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	111.554

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
13.452

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
77607W 010100	100 FT	37.500 LB	BLACK		16AWG 163/38 7C UNSHIELDED

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