

METRIC MEASUREMENT VERSION

77812W Multi-Conductor - 600V Unshielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information
please call

1-800-Belden1

General Description:

18 AWG stranded (105x38) bare copper conductors, PVC insulation, oil-resistant overall PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
11	18	105x38	BC - Bare Copper	1.321

Total Number of Conductors: 12

Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 18

Ground Wire Stranding: 105x38

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	2.438

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	1.270

Overall Cable

Overall Nominal Diameter: 13.208 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: 565.516 Kg/Km

Max. Recommended Pulling Tension: 702.816 N

Min. Bend Radius/Minor Axis: 106.680 mm

Min. Bend/Installation: 106.680 mm

Min. Bend Radius (Continuous Flexing): 106.680 mm

Flex Cycle Rating: 14 Million Flexes

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

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Flame Test

CSA Flame Test: FT1

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)
0.623

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	101.711

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
21.655

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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