

METRIC MEASUREMENT VERSION

**77003W Multi-Conductor - 600V Unshielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles**



For more Information  
please call

1-800-Belden1

## General Description:

20 AWG stranded (63x38) bare copper conductors, PVC insulation, oil-resistant overall PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	20	63x38	BC - Bare Copper	1.016

Total Number of Conductors: 3

### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 20

Ground Wire Stranding: 63x38

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	2.134

#### Insulation Color Code Chart:

Color	Description
Red	Individually Numbered
Yellow/Green	Ground

### Outer Shield

Outer Shield Separator Material: Tissue Tape, 25&#37; Overlap, Min.

### Outer Jacket

#### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

### Overall Cable

Overall Nominal Diameter: 6.909 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: 148.820 Kg/Km

Max. Recommended Pulling Tension: 105.867 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: 14 Million Flexes

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	THHN/THWN Singles
<b>AWM Specification:</b>	UL Style 2587 (600 V 90°C)
<b>CSA Specification:</b>	600 V AWM I/II A/B
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>Other Specification:</b>	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

<b>CSA Flame Test:</b>	FT1
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### Electrical Characteristics (Overall)

#### Nom. Inductance:

<b>Inductance (µH/m)</b>
0.656

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	91.868

#### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
35.763

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
77003W 010100	100 FT	11.500 LB	BLACK		20AWG 65/38 3C UNSHIELDED

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