

## METRIC MEASUREMENT VERSION

### 77004W 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)
3	20	63x38	BC - Bare Copper	1.016

Total Number of Conductors: 4

##### 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: 7.544 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: 178.584 Kg/Km

Max. Recommended Pulling Tension: 142.342 N

Min. Bend Radius/Minor Axis: 60.960 mm

Min. Bend/Installation: 60.960 mm

Min. Bend Radius (Continuous Flexing): 60.960 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 ( $\mu\text{H}/\text{m}$ )
0.656

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

Description	Freq. (kHz)	Capacitance ( $\mu\text{F}/\text{m}$ )
Nom. Cond. to Cond	1.000	91.868

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
35.763

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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