

## 73003WS Multi-Conductor - 600V Shielded, Light to Moderate Flexing Applications Up to 1 Million Flex Life Cycles



For more Information  
please call

1-800-Belden1

### General Description:

20 AWG stranded (10x30) bare copper conductors, PVC insulation, oil-resistant PVC inner jacket, tinned copper braid shield, 85% coverage, oil-resistant overall PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	20	10x30	BC - Bare Copper	0.940

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 20

Ground Wire Stranding: 10X30

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	2.057

##### Insulation Color Code Chart:

Color	Description
Black	Individually Numbered
Yellow/Green	Ground

#### Inner Jacket

##### Inner Jacket Material:

Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	0.762	6.121

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material	Coverage (%)
TC - Tinned Copper	85.000

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: 8.611 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: 203.883 Kg/Km

## METRIC MEASUREMENT VERSION

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Max. Recommended Pulling Tension:	133.446 N
Min. Bend Radius/Minor Axis:	68.580 mm
Min. Bend/Installation:	68.580 mm
Min. Bend Radius (Continuous Flexing):	68.580 mm
Flex Cycle Rating:	1 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 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)
0.689

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	124.678
Nom. Ground.	1.000	223.108

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
34.779

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
11.484

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
73003WS 008100	100 FT	17.200 LB	GRAY		20AWG 10/30 3C SHIELDED
73003WS 0081000	1,000 FT	141.000 LB	GRAY		20AWG 10/30 3C SHIELDED
73003WS 008500	500 FT	72.500 LB	GRAY		20AWG 10/30 3C SHIELDED

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