# **Detailed Specifications & Technical Data**





73803WS 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:**

18 AWG stranded (16x30) 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) BC - Bare Copper **Total Number of Conductors:** 3 **Ground Wire** Ground Wire (Y/N): Ground Wire AWG: 18 **Ground Wire Stranding:** 16X30 **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 2.311

## Insulation Color Code Chart:

Color	Description	
Black	Individually Numbered	
Yellow/Green	Ground	

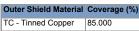
#### **Inner Jacket**

Inner Jacket Material:

Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	0.762	6.655

#### **Outer Shield**

Outer Shield Material:



Outer Shield Separator Material:

Tissue Tape, 25% Overlap, Min.

## Outer Jacket

Outer Jacket Material:

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

## Overall Cable

Overall Nominal Diameter: 9.144 mm

hanical 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:	236.624 Kg/Km
Max. Recommended Pulling Tension:	195.721 N
Min. Bend Radius/Minor Axis:	45.720 mm
Min. Bend/Installation:	45.720 mm
Min. Bend Radius (Continuous Flexing):	45.720 mm
Flex Cycle Rating:	1 Million Flexes

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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
ame Test	
CSA Flame Test:	FT1

## **Electrical Characteristics (Overall)**

Nom. Inductance:

Α

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
73803WS 008100	100 FT	19.400 LB	GRAY		18AWG 19/30 3C SHIELDED
73803WS 0081000	1,000 FT	164.000 LB	GRAY		18AWG 19/30 3C SHIELDED
73803WS 008500	500 FT	84.000 LB	GRAY		18AWG 19/30 3C SHIELDED

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Belden Wire & Cable:

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