

## METRIC MEASUREMENT VERSION

**73805WS 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)
4	18	16x30	BC - Bare Copper	1.194

Total Number of Conductors: 5

#### Ground Wire

Ground Wire (Y/N): Y

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	8.026

#### 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: 10.516 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: 322.939 Kg/Km

Max. Recommended Pulling Tension: 320.270 N

Min. Bend Radius/Minor Axis: 52.578 mm

Min. Bend/Installation: 52.578 mm

Min. Bend Radius (Continuous Flexing): 52.578 mm

Flex Cycle Rating: 1 Million Flexes

## METRIC MEASUREMENT VERSION

### 73805WS Multi-Conductor - 600V Shielded, Light to Moderate Flexing Applications Up to 1 Million Flex Life Cycles

#### 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 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
------------------------	-----

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

<b>Inductance (µH/m)</b>
0.623

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	144.364
Nom. Ground.	1.000	259.199

##### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
21.655

##### Nominal Outer Shield DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
8.104

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
73805WS 008100	100 FT	27.200 LB	GRAY		18AWG 19/30 5C SHIELDED
73805WS 0081000	1,000 FT	231.000 LB	GRAY		18AWG 19/30 5C SHIELDED
73805WS 008500	500 FT	117.500 LB	GRAY		18AWG 19/30 5C SHIELDED

Revision Number: 0    Revision Date: 09-27-2017

© 2017 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.