

## METRIC MEASUREMENT VERSION

### 77804WS Multi-Conductor - 600V Shielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information  
please call

1-800-Belden1

#### General Description:

18 AWG stranded (105x38) 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)
3	18	105x38	BC - Bare Copper	1.321

Total Number of Conductors: 4

##### Ground Wire

Ground Wire (Y/N):	Y
Ground Wire AWG:	18
Ground Wire Stranding:	105x38
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	2.438

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	0.635	7.772

##### 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	1.016

##### 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:	315.498 Kg/Km
Max. Recommended Pulling Tension:	271.340 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:	14 Million Flexes

## METRIC MEASUREMENT VERSION

### 77804WS Multi-Conductor - 600V Shielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles

#### 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

##### Flame Test

CSA Flame Test:	FT1
-----------------	-----

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance (µH/m)
0.623

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

Description	Freq. (kHz)	Capacitance (pF/m)
Nom. Cond. to Cond	1.000	147.645
Nom. Ground.	1.000	265.761

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
20.998

##### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
10.499

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
--------	-------	-------------	-------	-------	-----------

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.