

## 73012WS 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. (in.)
11	20	10x30	BC - Bare Copper	0.037

Total Number of Conductors: 12

**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 (in.)	Dia. (in.)
PVC - Polyvinyl Chloride	0.022	0.081

Insulation Color Code Chart:

Color	Description
Black	Individually Numbered

**Inner Jacket**

Inner Jacket Material:

Inner Jacket Material	Nom Wall (in.)	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	0.032	0.407

**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 (in.)
PVC - Polyvinyl Chloride	0.040

**Overall Cable**

Overall Nominal Diameter: 0.521 in.

**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:	340 lbs/1000 ft.
Max. Recommended Pulling Tension:	108 lbs.
Min. Bend Radius/Minor Axis:	2.600 in.
Min. Bend/Installation:	2.600 in.
Min. Bend Radius (Continuous Flexing):	2.600 in.
Flex Cycle Rating:	1 Million Flexes

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

## ENGLISH MEASUREMENT VERSION

**73012WS Multi-Conductor - 600V Shielded, Light to Moderate Flexing Applications Up to 1 Million Flex Life Cycles**

<b>NEC/(UL) Specification:</b>	I HHN / I HWN 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/ft)</b>
0.210

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

Description	Freq. (kHz)	Capacitance (pF/ft)
Nom. Cond. to Cond	1.000	38.000
Nom. Ground.	1.000	68.000

**Nom. Conductor DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
10.600

**Nominal Outer Shield DC Resistance:**

<b>DCR @ 20°C (Ohm/1000 ft)</b>
1.590

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
73012WS 008100	100 FT	39.400 LB	GRAY		20AWG 10/30 12C SHIELDED
73012WS 0081000	1,000 FT	376.000 LB	GRAY		20AWG 10/30 12C SHIELDED
73012WS 008500	500 FT	175.500 LB	GRAY		20AWG 10/30 12C 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Belden Wire & Cable:

[73012WS 008100](#) [73012WS 008500](#) [73012WS 0081000](#)