

## 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:****Inductance (μH/ft)**

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:****DCR @ 20°C (Ohm/1000 ft)**

10.600

**Nominal Outer Shield DC Resistance:****DCR @ 20°C (Ohm/1000 ft)**

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 |

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