

## 73203WS 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:

12 AWG stranded (65x30) 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.) |
|--------------|-----|-----------|--------------------|------------|
| 2            | 12  | 65x30     | BC - Bare Copper   | 0.093      |

Total Number of Conductors: 3

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 12

Ground Wire Stranding: 65X30

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                | 0.137      |

Insulation Color Code Chart:

| Color        | Description           |
|--------------|-----------------------|
| Black        | Individually Numbered |
| Yellow/Green | Ground                |

#### Inner Jacket

Inner Jacket Material:

| Inner Jacket Material    | Nom Wall (in.) | Nom. Dia. (in.) |
|--------------------------|----------------|-----------------|
| PVC - Polyvinyl Chloride | 0.040          | 0.382           |

#### 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 | 0.060                     |

#### Overall Cable

Overall Nominal Diameter: 0.530 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: 191 lbs/1000 ft.

Max. Recommended Pulling Tension: 163 lbs.

Min. Bend Radius/Minor Axis: 2.700 in.

Min. Bend/Installation: 2.700 in.

Min. Bend Radius (Continuous Flexing): 2.700 in.

Flex Cycle Rating: 1 Million Flexes

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### 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 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/ft) |
| 0.160              |

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

| Description        | Freq. (kHz) | Capacitance (pF/ft) |
|--------------------|-------------|---------------------|
| Nom. Cond. to Cond | 1.000       | 64.000              |
| Nom. Ground.       | 1.000       | 115.000             |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 1.630                    |

#### Nominal Outer Shield DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 2.400                    |

### Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc               |
|-----------------|----------|-------------|-------|-------|-------------------------|
| 73203WS 008100  | 100 FT   | 24.500 LB   | GRAY  |       | 12AWG 65/30 3C SHIELDED |
| 73203WS 0081000 | 1,000 FT | 227.000 LB  | GRAY  |       | 12AWG 65/30 3C SHIELDED |
| 73203WS 008500  | 500 FT   | 101.000 LB  | GRAY  |       | 12AWG 65/30 3C SHIELDED |

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