

## METRIC MEASUREMENT VERSION

**76012WS Multi-Conductor - 300V Foil/Spiral Shield, Continuous Flexing Data Applications Up to 6 Million Flex Life Cycles**



For more Information  
please call

1-800-Belden1

### General Description:

28 AWG stranded (7x36) tinned copper conductors, PVC insulation, Aluminum/Polyester Foil Shield, Tinned copper spiral shield, 90% coverage, oil-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 12           | 28  | 7x36      | TC - Tinned Copper |

#### Insulation

Insulation Material:

| Insulation Material      | Wall Thickness (mm) |
|--------------------------|---------------------|
| PVC - Polyvinyl Chloride | 0.254               |

Insulation Color Code Chart:

| Number | Color  |
|--------|--------|
| 1      | Black  |
| 2      | Red    |
| 3      | White  |
| 4      | Green  |
| 5      | Orange |
| 6      | Blue   |
| 7      | Brown  |
| 8      | Yellow |
| 9      | Violet |
| 10     | Slate  |
| 11     | Pink   |
| 12     | Tan    |

#### Outer Shield

Outer Shield Material:

| Layer # | Type  | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1       | Tape  | Aluminum/Mylar        | 100.000      |
| 2       | Serve | TC - Tinned Copper    | 90.000       |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.016                    |

#### Overall Cable

Overall Nominal Diameter: 7.188 mm

### Mechanical Characteristics (Overall)

|  |                  |
|--|------------------|
| Bulk Cable Weight:                     | 66.969 Kg/Km     |
| Max. Recommended Pulling Tension:      | 102.753 N        |
| Min. Bend Radius/Minor Axis:           | 58.420 mm        |
| Min. Bend/Installation:                | 58.420 mm        |
| Min. Bend Radius (Continuous Flexing): | 58.420 mm        |
| Flex Cycle Rating:                     | 6 Million Flexes |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                    |     |
|------------------------------------|-----|
| NEC/(UL) Specification:            | CM  |
| CEC/C(UL) Specification:           | CMG |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| MII Order #39 (China RoHS):        | Yes |

Customer Part Number Reference Specification: AWM/STYLE 10002, AWM/STYLE 2661, CSA AWM I/II A/B, EU Directive 2011/65/EU(RoHS2), REACH Regulation (EC 1907/2006), California Proposition 65

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### Flame Test

CSA Flame Test: FT4

### Suitability

Suitability - Burial: Yes

### Electrical Characteristics (Overall)

#### Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.722             |

#### Nom. Capacitance Conductor to Conductor:

| Freq. (MHz) | Capacitance (pF/m) |
|-------------|--------------------|
| 0.001       | 82.025             |

#### Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 219.827             |

#### Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 11.812              |

#### Max. Operating Voltage - UL:

| Voltage |
|---------|
| 300V    |

### Notes (Overall)

**Notes:** Temperature Range -10 to 105°C(static), +5 to 105°C (dynamic)

### Put Ups and Colors:

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

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