

## METRIC MEASUREMENT VERSION

76002WS 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 |
|--------------|-----|-----------|--------------------|
| 2            | 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   |

#### 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: 4.420 mm

### Mechanical Characteristics (Overall)

Bulk Cable Weight: 28.276 Kg/Km

Max. Recommended Pulling Tension: 30.693 N

Min. Bend Radius/Minor Axis: 35.560 mm

Min. Bend/Installation: 35.560 mm

Min. Bend Radius (Continuous Flexing): 35.560 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

MIL 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

#### Flame Test

CSA Flame Test: FT4

#### Suitability

Suitability - Burial: Yes

### Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 70.000          |

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**Nom. Inductance:**

|                          |
|--------------------------|
| <b>Inductance (µH/m)</b> |
| 0.722                    |

**Nom. Capacitance Conductor to Conductor:**

|                    |                           |
|--------------------|---------------------------|
| <b>Freq. (MHz)</b> | <b>Capacitance (pF/m)</b> |
| 0.001              | 88.587                    |

**Nom. Conductor DC Resistance:**

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 216.546                    |

**Nominal Outer Shield DC Resistance:**

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 24.279                     |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 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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