

## METRIC MEASUREMENT VERSION

### 77804WS Multi-Conductor - 600V Shielded, Continuous Flexing Applications Up to 14 Million Flex Life Cycles



For more Information  
please call

1-800-Belden1

#### General Description:

18 AWG stranded (105x38) 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. (mm) |
|--------------|-----|-----------|--------------------|-----------|
| 3            | 18  | 105x38    | BC - Bare Copper   | 1.321     |

Total Number of Conductors: 4

##### Ground Wire

|                                  |                          |
|----------------------------------|--------------------------|
| Ground Wire (Y/N):               | Y                        |
| Ground Wire AWG:                 | 18                       |
| Ground Wire Stranding:           | 105x38                   |
| Ground Wire Conductor Material:  | BC - Bare Copper         |
| Ground Wire Insulation Material: | PVC - Polyvinyl Chloride |

##### Insulation

Insulation Material:

| Insulation Material      | Wall Thickness (mm) | Dia. (mm) |
|--------------------------|---------------------|-----------|
| PVC - Polyvinyl Chloride | 0.559               | 2.438     |

Insulation Color Code Chart:

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

##### Inner Jacket

Inner Jacket Material:

| Inner Jacket Material    | Nom Wall (mm) | Nom. Dia. (mm) |
|--------------------------|---------------|----------------|
| PVC - Polyvinyl Chloride | 0.635         | 7.772          |

##### 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 (mm) |
|--------------------------|--------------------------|
| PVC - Polyvinyl Chloride | 1.016                    |

##### Overall Cable

Overall Nominal Diameter: 10.516 mm

#### 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:                     | 315.498 Kg/Km          |
| Max. Recommended Pulling Tension:      | 271.340 N              |
| Min. Bend Radius/Minor Axis:           | 52.578 mm              |
| Min. Bend/Installation:                | 52.578 mm              |
| Min. Bend Radius (Continuous Flexing): | 52.578 mm              |
| Flex Cycle Rating:                     | 14 Million Flexes      |

## METRIC MEASUREMENT VERSION

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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 10012, 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/m) |
| 0.623             |

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

| Description        | Freq. (kHz) | Capacitance (pF/m) |
|--------------------|-------------|--------------------|
| Nom. Cond. to Cond | 1.000       | 147.645            |
| Nom. Ground.       | 1.000       | 265.761            |

##### Nom. Conductor DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 20.998              |

##### Nominal Outer Shield DC Resistance:

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 10.499              |

#### Put Ups and Colors:

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

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