

## METRIC MEASUREMENT VERSION

76508TS Multi-Conductor - 300V Shielded, Continuous Flexing Data Applications Up to 6 Million FLEflex Life Cycles


 For more Information  
 please call

1-800-Belden1

**General Description:**

26 AWG stranded (7x34) tinned copper conductors, PVC insulation, aluminum/polyester foil shield, tinned copper braid shield, 85% coverage, oil-resistant overall PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 8       | 26  | 7x34      | TC - Tinned Copper | 0.483     |

Total Number of Conductors:

16

**Insulation**

Insulation Material:

| Insulation Material      | Wall Thickness (mm) | Dia. (mm) |
|--------------------------|---------------------|-----------|
| PVC - Polyvinyl Chloride | 0.254               | 0.991     |

**Outer Shield**

Outer Shield Material:

| Type        | Outer Shield Material | Coverage (%) |
|-------------|-----------------------|--------------|
| Foil Shield | Alum/Mylar            | 100.000      |
| Braid       | Tinned Copper         | 85.000       |

Outer Shield Drain Wire AWG:

| Component  | AWG | Stranding | Drain Wire Conductor Material |
|------------|-----|-----------|-------------------------------|
| Drain Wire | 26  | 7x34      | TC - Tinned Copper            |

Outer Shield Separator Material:

Tissue Tape, 25&amp;#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:

9.017 mm

**Pair**

Pair Color Code Chart:

| Number | Color        |
|--------|--------------|
| 1      | BLACK-RED    |
| 2      | BLACK-WHITE  |
| 3      | BLACK-GREEN  |
| 4      | BLACK-BLUE   |
| 5      | BLACK-BROWN  |
| 6      | BLACK-YELLOW |
| 7      | BLACK-ORANGE |
| 8      | RED-GREEN    |

**Mechanical Characteristics (Overall)**

Bulk Cable Weight: 101.198 Kg/Km

Max. Recommended Pulling Tension: 195.721 N

Min. Bend Radius/Minor Axis: 91.440 mm

Min. Bend/Installation: 91.440 mm

Min. Bend Radius (Continuous Flexing): 134.620 mm

Flex Cycle Rating: 6 Million Flexes

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CM

AWM Specification: UL Style 20006

CSA Specification: 600 V AWM I/II A/B

# Detailed Specifications & Technical Data



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EU Directive 2011/65/EU (ROHS II):

Yes

Other Specification:

AWM/STYLE 10002, AWM/STYLE 2661, CM, AWM I/II A/B, C(UL) TYPE CMG, FT4, EU Low Voltage Directive 2014/35/EC, EU Directive 2011/65/EU(RoHS2)

#### Flame Test

CSA Flame Test:

FT4

#### Suitability

Sunlight Resistance:

Yes

#### Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description              | Impedance (Ohm) |
|--------------------------|-----------------|
| Characteristic Impedance | 89.000          |

Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.656             |

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

| Description        | Freq. (kHz) | Capacitance (pF/m) |
|--------------------|-------------|--------------------|
| Mutual Capacitance | 1.000       | 70.213             |
| Ground Capacitance | 1.000       | 127.959            |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 137.802             |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 9.843               |

#### 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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