

## 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 &amp; 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 |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

Revision Number: 0 Revision Date: 09-27-2017

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