

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

76506TS Multi-Conductor - 300V Shielded, Continuous Flexing Data Applications Up to 6 Million FLeX 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)
6	26	7x34	TC - Tinned Copper	0.483

Total Number of Conductors: 12

#### 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&#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: 7.950 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

### Mechanical Characteristics (Overall)

Bulk Cable Weight:	83.339 Kg/Km
Max. Recommended Pulling Tension:	155.687 N
Min. Bend Radius/Minor Axis:	78.740 mm
Min. Bend/Installation:	78.740 mm
Min. Bend Radius (Continuous Flexing):	119.380 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
EU Directive 2011/65/EU (ROHS II):	Yes

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**Other Specification:** AWM/S I YLE 10002, AWM/S I YLE 2661, CM, AWM I/II A/B, C(UL) I YPE CMG, F-14, 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)
8.531

#### 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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