

METRIC MEASUREMENT VERSION

76610TS 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:

24 AWG stranded (10x34) 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)
10	24	10x34	TC - Tinned Copper	0.610

Total Number of Conductors: 20

### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (mm)	Dia. (mm)
PVC - Polyvinyl Chloride	0.254	1.118

### 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	1.143

### Overall Cable

Overall Nominal Diameter: 10.846 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
9	RED-WHITE
10	RED-BLUE

## Mechanical Characteristics (Overall)

Bulk Cable Weight: 142.867 Kg/Km

Max. Recommended Pulling Tension: 324.719 N

Min. Bend Radius/Minor Axis: 109.220 mm

Min. Bend/Installation: 109.220 mm

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Min. Bend Radius (Continuous Flexing):	162.560 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
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
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#### Suitability

Sunlight Resistance:	Yes
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### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Description	Impedance (Ohm)
Characteristic Impedance	82.000

#### Nom. Inductance:

Inductance (µH/m)
0.623

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

Description	Freq. (kHz)	Capacitance (pF/m)
Mutual Capacitance	1.000	75.791
Ground Capacitance	1.000	137.802

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
98.430

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
6.923

### 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
76610TS 008100	100 FT	15.100 LB	GRAY		24 AWG/10 PAIR MINI DIAMETER
76610TS 0081000	1,000 FT	110.000 LB	GRAY		24 AWG/10 PAIR MINI DIAMETER
76610TS 008500	500 FT	57.000 LB	GRAY		24 AWG/10 PAIR MINI DIAMETER

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