

## 1480A Multi-Conductor - 300V Power-Limited Tray Cable

For more Information  
please call

1-800-Belden1



### Description:

18 AWG pairs stranded (7x26) bare copper conductors, twisted pairs, individually shielded plus an overall Beldfoil (100% coverage), PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
	24	18	7x26	BC - Bare Copper
1		22	7x30	BC - Bare Copper

Total Number of Conductors: 49

#### Insulation

##### Insulation Material:

Insulation Material
PVC - Polyvinyl Chloride

#### Inner Shield

##### Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Inner Shield Drain Wire AWG:

AWG	Stranding	Conductor Material
20	7x28	TC - Tinned Copper

Inner Shield Drain Wire Stranding: 7x28

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
18	7x26	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.8796

Outer Jacket Ripcord: Yes

#### Overall Cable

Overall Nominal Diameter: 25.832 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
White and Numbered 24 Communication Wire	Black & White and Numbered 1 Black & White and Numbered 2

## 1480A Multi-Conductor - 300V Power-Limited Tray Cable

	Black & White and Numbered 3
	Black & White and Numbered 4
	Black & White and Numbered 5
	Black & White and Numbered 6
	Black & White and Numbered 7
	Black & White and Numbered 8
	Black & White and Numbered 9
	Black & White and Numbered 10
	Black & White and Numbered 11
	Black & White and Numbered 12
	Black & White and Numbered 13
	Black & White and Numbered 14
	Black & White and Numbered 15
	Black & White and Numbered 16
	Black & White and Numbered 17
	Black & White and Numbered 18
	Black & White and Numbered 19
	Black & White and Numbered 20
	Black & White and Numbered 21
	Black & White and Numbered 22
	Black & White and Numbered 23
	Black & White and Numbered 24
	Orange

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-30°C To +105°C
<b>Bulk Cable Weight:</b>	913.948 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	6418.750 N
<b>Min. Bend Radius/Minor Axis:</b>	260.350 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMG, ITC, PLTC
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	04/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Other Specification:</b>	NEC Type PLTC Listed, which is approved for cable tray use in Class 1, Division 2, hazardous areas and non-hazardous areas, cable trays, raceways, conduit and supported by messenger wires.

#### Flame Test

<b>UL Flame Test:</b>	UL1685 FT4 Loading
<b>CSA Flame Test:</b>	FT4
<b>IEEE Flame Test:</b>	1202

#### Suitability

<b>Suitability - Indoor:</b>	Yes
<b>Suitability - Outdoor:</b>	Yes

METRIC MEASUREMENT VERSION

## 1480A Multi-Conductor - 300V Power-Limited Tray Cable

Suitability - Burial: Yes

Sunlight Resistance: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nom. Inductance:

Inductance (µH/m)  
0.62339

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
167.331

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)  
311.695

### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
18 AWG	19.2267
22 AWG	48.2307

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
12.4678

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 33.794 Ohm/km

### Max. Operating Voltage - UL:

Voltage  
300 V RMS

### Max. Recommended Current:

Current  
2 Amps per conductor @ 25°C

## Notes (Overall)

Notes: Alternate color coding available upon request.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1480A 0061000	305 MT	291.661 KG	BLUE, LIGHT	C	24 FS PR #18 +1 #22 PVC FS PVC
1480A 0102500	762 MT	735.957 KG	BLACK	C Z	18/24 PR PLTC IS/OS
1480A 0105000	1,524 MT	1,544.489 KG	BLACK	C Z	18/24 PR PLTC IS/OS

### Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

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