

## 9559 Multi-Conductor - 300V Power-Limited Tray Cable

For more Information  
please call

1-800-Belden1



### General Description:

18 AWG pairs stranded (19x30) tinned copper conductors, twisted pairs, PVC insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
9	18	19x30	TC - Tinned Copper

Total Number of Conductors: 18

#### Insulation

##### Insulation Material:

Insulation Material
PVC - Polyvinyl Chloride

#### 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	1.3462

Outer Jacket Ripcord: Yes

#### Overall Cable

##### Overall Cabling Lay Length & Direction:

Direction
Left-hand Lay

Overall Nominal Diameter: 14.707 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red and Numbered 1
2	Black & Red and Numbered 2
3	Black & Red and Numbered 3
4	Black & Red and Numbered 4
5	Black & Red and Numbered 5
6	Black & Red and Numbered 6
7	Black & Red and Numbered 7
8	Black & Red and Numbered 8
9	Black & Red and Numbered 9

## Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	278.293 Kg/Km
Max. Recommended Pulling Tension:	1757.040 N
Min. Bend Radius/Minor Axis:	147.320 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	PLTC, ITC, CMG
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4
IEEE Flame Test:	1202
ICEA Flame Test:	T-29-520

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Burial:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Surface Printing (Overall)

## Electrical Characteristics (Overall)

### Nom. Inductance:

Inductance (µH/m)  
0.55777

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)  
177.174

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
114.835

### Nom. Conductor DC Resistance:

METRIC MEASUREMENT VERSION

## 9559 Multi-Conductor - 300V Power-Limited Tray Cable

**DCR @ 20°C (Ohm/km)**

19.5548

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**

29.529

**Max. Operating Voltage - UL:**

**Voltage**

300 V RMS (PLTC

CMG)

150 V RMS (ITC)

**Max. Recommended Current:**

**Current**

4.5 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9559 0601000	305 MT	97.523 KG	CHROME	C	9 PR #18 PVC SH PVC
9559 060500	152 MT	48.988 KG	CHROME	C	9 PR #18 PVC SH PVC
9559 0605000	1,524 MT	489.882 KG	CHROME		9 PR #18 PVC SH PVC

**Notes:**

C = CRATE REEL PUT-UP.

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