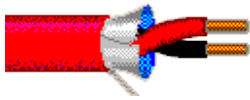


## 9581 Multi-Conductor - Power-Limited Fire Protective Signal Circ Cabl, 2 Cdrs Cabld

For more Information  
please call

1-800-Belden1



### General Description:

14 AWG solid bare copper conductors, conductors cabled, PVC insulation, Beldfoil® shield (100% coverage), 16 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	14	Solid	BC - Bare Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.5588

#### 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
16	Stranded	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.0668

#### Overall Cable

Overall Cabling Lay Length & Direction:

Length (mm)	Direction	Twists (twist/m)
50.800	Left Hand	19.686

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red

Overall Nominal Diameter: 7.772 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight: 86.316 Kg/Km

Max. Recommended Pulling Tension: 551.577 N

Min. Bend Radius/Minor Axis: 82.550 mm

## 9581 Multi-Conductor - Power-Limited Fire Protective Signal Circ Cabl, 2 Cdrs Cabld

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	FPLR
NEC Articles:	760
CEC/C(UL) Specification:	FAS105
AWM Specification:	UL Style 2464 (300 V 80°C)
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
Other Specification:	California State Fire Marshall

#### Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

#### Suitability

Suitability - Indoor:	Yes
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#### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Inductance:

Inductance (µH/m)  
0.59058

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
180.455

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

Capacitance (pF/m)  
344.505

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
8.2025

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)  
12.4678

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Current  
18 Amps per conductor @ 25°C ambient

## 9581 Multi-Conductor - Power-Limited Fire Protective Signal Circ Cabl, 2 Cdrs Cabld

### Notes (Overall)

**Notes:** This cable passes the UL 1685 70,000 BTU Flame Test (comparable to the IEEE 383 Flame Test) and is listed by the California State Fire Marshall. Component Recognized UL 2464, 300 V 80°C.

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9581 002U500	500 FT	31.500 LB	RED		2 #14 PVC SHLD PVC
9581 0021000	1,000 FT	63.000 LB	RED	C	2 #14 PVC SHLD PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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