

## 9578 Multi-Conductor - Power-Limited Fire Protective Signaling Circuit Cables



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG solid bare copper conductors, conductors cabled, PVC insulation, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	18	Solid	BC - Bare Copper

Total Number of Conductors: 4

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.4318

#### Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	7x30	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.9398

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	Yellow
4	Blue

Overall Nominal Diameter: 6.680 mm

### Mechanical Characteristics (Overall)

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

UL Temperature Rating: 105°C

Bulk Cable Weight: 71.434 Kg/Km

Max. Recommended Pulling Tension: 440.372 N

Min. Bend Radius/Minor Axis: 69.850 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR, 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

## METRIC MEASUREMENT VERSION

### 9578 Multi-Conductor - Power-Limited Fire Protective Signaling Circuit Cables

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 Vertical Shaft
CSA Flame Test:	FT4

#### Plenum/Non-Plenum

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

##### Nom. Inductance:

**Inductance (µH/m)**  
0.554489

##### Nom. Capacitance Conductor to Conductor:

**Capacitance (pF/m)**  
141.083

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

**Capacitance (pF/m)**  
259.855

##### Nom. Conductor DC Resistance:

**DCR @ 20°C (Ohm/km)**  
20.9984

##### Nominal Outer Shield DC Resistance:

**DCR @ 20°C (Ohm/km)**  
38.3877

##### Max. Operating Voltage - UL:

**Voltage**  
300 V RMS

##### Max. Recommended Current:

**Current**  
3.2 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9578 0021000	1,000 FT	51.000 LB	RED	C	4 #18 PVC SHLD PVC

##### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4    Revision Date: 10-03-2012

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