

## 82760 Multi-Conductor - Single-Pair Cable



For more Information  
please call

1-800-Belden1



### Description:

18 AWG stranded (19x30) TC conductors, plenum, FEP insulation, twisted pair, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, Flamarrest® jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
1	18	19x30	TC - Tinned Copper

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.007

#### 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
20	Stranded	TC - Tinned Copper	

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	.014

### Overall Cabling

Overall Nominal Diameter: 0.146 in.

### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 22.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 64 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.600 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: Yes

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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
MIL Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	8760

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

35

### Nom. Inductance:

Inductance (µH/ft)

.15

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

51

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

Capacitance (pF/ft)

97

### Nominal Velocity of Propagation:

VP (%)

69

### Nominal Delay:

Delay (ns/ft)

1.47

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

5.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

7.3

### Max. Operating Voltage - UL:

Voltage

300 V RMS

### Max. Recommended Current:

Current

5.4 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82760 877U1000	1,000 FT	21.000 LB	NATURAL		1 PR #18 FEP FS FLMRST
82760 877U500	500 FT	11.000 LB	NATURAL		1 PR #18 FEP FS FLMRST

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82760 8771000	1,000 FT	20.000 LB	NATURAL	C	1 PR #18 FEP FS FLMRST
82760 8775000	5,000 FT	105.000 LB	NATURAL		1 PR #18 FEP FS FLMRST

**Notes:**

C = CRATE REEL PUT-UP.

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