

## 8761 Multi-Conductor - Single-Pair Cable



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, polyethylene insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
1	22	7x30	TC - Tinned Copper

Total Number of Conductors: 2

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.017

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/shorting fold	100.000

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	Stranded	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.025

#### Overall Cable

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

Length (in.)	Direction	Twists (twist/ft)
2.000	Left Hand	6.000

Overall Nominal Diameter: 0.175 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Clear

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2092)
Bulk Cable Weight:	16 lbs/1000 ft.
Max. Recommended Pulling Tension:	27 lbs.
Min. Bend Radius/Minor Axis:	1.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2092 (300 V 60°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):	01/01/2004
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 UL Loading
CSA Flame Test:	FT1

### Suitability

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

Plenum (Y/N):	No
Plenum Number:	88761, 87761, 82761

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

64

### Nom. Inductance:

Inductance (µH/ft)

0.2

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

24

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

Capacitance (pF/ft)

47

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16

### Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2092)

### Max. Recommended Current:

Description	Current
10C temperature rise	2.9 Amps per conductor @ 25°C ambient

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8761 060U1000	1,000 FT	17.000 LB	CHROME		2 #22 PE FS PVC
8761 060U500	500 FT	9.000 LB	CHROME		2 #22 PE FS PVC
8761 0601000	1,000 FT	18.000 LB	CHROME	C	2 #22 PE FS PVC
8761 06010000	10,000 FT	170.000 LB	CHROME	C Y	2 #22 PE FS PVC
8761 06010001	10,000 FT	170.000 LB	CHROME	C Z	2 #22 PE FS PVC
8761 06015000	15,000 FT	270.000 LB	CHROME	C Y	2 #22 PE FS PVC
8761 0602000	2,000 FT	36.000 LB	CHROME		2 #22 PE FS PVC
8761 060500	500 FT	9.000 LB	CHROME		2 #22 PE FS PVC
8761 0605000	5,000 FT	90.000 LB	CHROME	C	2 #22 PE FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN.MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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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