

## 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

### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	.016

### 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	Stranded	TC - Tinned Copper	

### Outer Jacket

#### Outer Jacket Material:

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

### Overall Cabling

Overall Nominal Diameter: 0.175 in.

### Pair

#### Pair Color Code Chart:

Number	Color
1	Black & Clear

#### Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

## 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 (Install)/Minor Axis:	1.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2092 (300 V 60°C)
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
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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:

Current
2.9 Amps per conductor @ 25°C

## 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	1,000 FT	17.000 LB	CHROME	C Y	2 #22 PE FS PVC

## 8761 Multi-Conductor - Single-Pair Cable

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'.


# Overall Beldfoil® Shield

## Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m


**22 AWG Solid Tinned Copper Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 22 AWG Solid TC Drain Wire\***

**Polypropylene Insulation • Gray or Black PVC Jacket**

 <p>Z-Fold®</p>	<b>8450</b>	NEC:	1	Black, Red	U-500 <sup>†</sup>	U-152.4	7.5	3.4	.007	.18	.018	.46	.118	3.00	40	131	76	249			
		CM			U-1000 <sup>†</sup>	U-304.8	14.0	6.4													
		CEC:			1000	304.8	13.0	5.9													
		CM																			

<sup>†</sup>U-500 ft. and U-1000 ft. put-ups available in Black only.  
Belden's Miniature Type Broadcast Audio and Instrumentation Cables occupy 1/2 to 2/3 less space than standard cables.


**Polypropylene Insulation • Chrome PVC Jacket**

	<b>8752</b>		38	Request Tech Bulletin T/8-4	250 <sup>†</sup>	76.2	65.0	29.5	.008	.20	.045	1.14	.610	15.50	17	56	24.3	80			
					1000 <sup>†</sup>	304.8	256.0	116.4													


\*8752 has a stranded tinned copper drain wire.

**22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire**

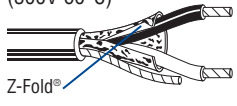
**Semi-rigid PVC Insulation • Pale Fawn Beige Striated PVC Jacket**

	<b>9414</b>	NEC:	1	White, Black	U-500	U-152.4	12.0	5.5	.010	.25	.035	.89	.186	4.72	50	164	95	312		
		CMG			500	152.4	11.5	5.2												
		CEC:			U-1000	U-304.8	23.0	10.5												
		CMG FT4			1000	304.8	23.0	10.5												

**PVC Insulation • Chrome PVC Jacket**

 <p>Z-Fold®</p>	<b>9462</b>	NEC:	1	Black, Red	100	30.5	3.0	1.4	.013	.33	.035	.89	.186	4.72	50	164	90	295		
		CMG			U-500	U-152.4	11.0	5.0												
		CEC:			500	152.4	10.5	4.8												
		CMG FT4			U-1000	U-304.8	21.0	9.5												
					1000	304.8	21.0	9.5												

**Polyethylene Insulation • Chrome PVC Jacket**

 <p>Z-Fold®</p>	<b>8761</b>	NEC:	1	Black, Clear	U-500	U-152.4	9.0	4.1	.016	.41	.025	.64	.175	4.45	24	79	47	154		
		CM			500	152.4	9.0	4.1												
		CEC:			U-1000	U-304.8	17.0	7.7												
		CM			1000	304.8	18.0	8.2												
					2000	609.6	36.0	16.3												
					5000	1524.0	90.0	40.9												
	10000 <sup>††</sup>	3048.0	170.0	77.3																

For Plenum versions of 8761, see 88761, 87761 or 82761.

	<b>9461</b>	NEC:	1	Black, Clear	U-500	U-152.4	11.0	5.0	.016	.41	.026	.66	.180	4.57	24	79	47	154
		CM			U-1000	U-304.8	21.0	9.6										
		CEC:																
		CM																

The jacket and shield are bonded so both can be removed on automatic stripping equipment.

TC = Tinned Copper

\*Capacitance between conductors.

\*\*Capacitance between one conductor and other conductors connected to shield.

<sup>†</sup> Spools are one piece, but length may vary -0 to +20% from length shown.

<sup>††</sup> Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.