

9462 Multi-Conductor - Audio, Control and Instrumentation Cable

**Description:**

22 AWG stranded (7x30) tinned copper conductors, PVC 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.)
PVC - Polyvinyl Chloride	.013

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 (in.)
PVC - Polyvinyl Chloride	.035

Overall Cabling

Overall Nominal Diameter: 0.186 in.

Pair**Pair Color Code Chart:**

Number	Color
1	Black & Red

Pair Lay Length & Direction:

Lay Length (in.)
1.500

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	17.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	27 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.860 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°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):	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

Flame Test

C(UL) Flame Test:	FT4
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Plenum/Non-Plenum

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

Nom. Characteristic Impedance:

Impedance (Ohm)
36

Nom. Inductance:

Inductance (μH/ft)
0.19

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
50

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
90

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16

Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

Current
3 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9462 060U1000	1,000 FT	21.000 LB	CHROME		2 #22 PVC FS PVC
9462 060U500	500 FT	11.000 LB	CHROME		2 #22 PVC FS PVC
9462 060100	100 FT	2.700 LB	CHROME		2 #22 PVC FS PVC
9462 0601000	1,000 FT	21.000 LB	CHROME	C	2 #22 PVC FS PVC
9462 060500	500 FT	10.500 LB	CHROME		2 #22 PVC FS PVC

Notes:

C = CRATE REEL PUT-UP.

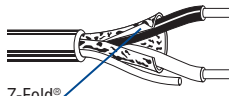
Overall Beldfoil® Shield

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

300V RMS 75°C 	8450	NEC:	1	Black, Red	U-500 [†]	U-152.4	7.5	3.4	.007	.18	.018	.46	.118	3.00	40	131	76	249
		CM			U-1000 [†]	U-304.8	14.0	6.4										
		CEC: CM			1000	304.8	13.0	5.9										

*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

200V RMS 80°C 	8752		38	Request Tech Bulletin T/8-4	250 [†]	76.2	65.0	29.5	.008	.20	.045	1.14	.610	15.50	17	56	24.3	80
					1000 [†]	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

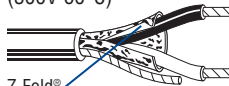
Semi-rigid PVC Insulation • Pale Fawn Beige Striated PVC Jacket

UL AWM Style 2464 (300V 80°C) 	9414	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: CMG FT4			U-1000	U-304.8	23.0	10.5										
					1000	304.8	23.0	10.5										

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464 (300V 80°C) 	9462	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: CMG FT4			500	152.4	10.5	4.8										
					U-1000	U-304.8	21.0	9.5										
					1000	304.8	21.0	9.5										

Polyethylene Insulation • Chrome PVC Jacket

UL AWM Style 2092 (300V 60°C) 	8761	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: CM			U-1000	U-304.8	17.0	7.7										
					1000	304.8	18.0	8.2										
					2000	609.6	36.0	16.3										
					5000	1524.0	90.0	40.9										
					10000 ^{††}	3048.0	170.0	77.3										

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

UL AWM Style 2092 (300V 60°C) 	9461	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										

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.

[†] Spools are one piece, but length may vary -0 to +20% from length shown.

^{††} Length may vary -10% to +20% and may contain 2 pieces. Minimum length of any piece is 1500 ft.