

# WIRE WRAPPING

## TOOLS & ACCESSORIES



**JDV Products Inc.**

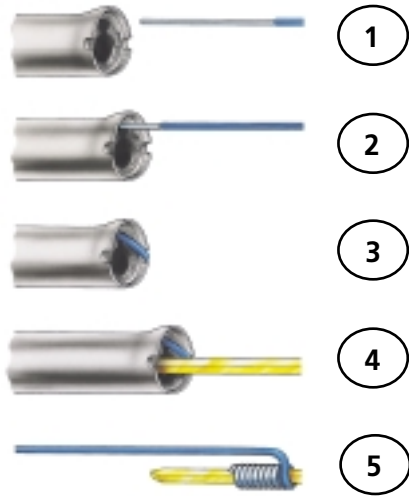
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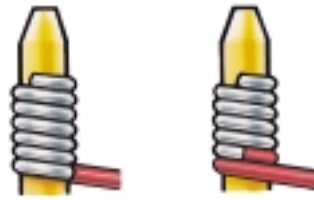
# The Technology of Wire Wrapping

A wire wrapped connection is made by coiling the wire around the sharp corners of a terminal under mechanical tension. This method of connection was developed by Bell Telephone Laboratories, Western Electric Company.

## Five Steps To Make Connection



### Regular Modified



- A "Regular" bit wraps the bare wire around the terminal. A "Modified" bit wraps a portion of insulation around the terminal in addition to the bare wire. This greatly increases the ability to withstand vibration.
- A distinct advantage of wire wrapping is the ease with which a wire may be removed from a terminal to correct errors or modify wiring. An unwrap tool is slipped over the terminal, engaging the first turn of the connection. Rotating the tool, the connection is removed in seconds, without damage to the terminal.
- There is a constant surveillance of manufacturing dimensions. Each wrapping bit is subjected to a series of "Qualification Tests". These consist of wrapping groups of wire on various types of test terminals. The wrapped wires are then subjected to a "Strip" test to determine adequate tightness. "Unwrap" tests are also performed to ensure against an "Over tight" wrap.
- Solid wire is used for wire wrapped connections. Copper is the most commonly used wire. Minimum elongation of 15% is required for 24 through 32 AWG; 20% for larger wire.

## Wire Size Chart

Bare Wire Dia. Inches	mm	AWG (USA)	SWG (GB)
.0403	1.022	18	
.040	1.016		19
.036	0.914	19	20
.032	0.813	20	21
.028	0.711	21	22
.0253	0.643	22	
.024	0.61		23
.0226	0.574	23	
.022	0.559		24
.0201	0.51	24	
.020	0.508		25
.018	0.457		26
.0179	0.455	25	
.0164	0.417		27
.0159	0.404	26	
.0148	0.376		28
.0142	0.361	27	
.0136	0.345		29
.0126	0.320	28	
.0124	0.315		30
.0116	0.295		31
.0113	0.287	29	
.0108	0.274		32
.0100	0.254	30	33
.0092	0.234		34
.0089	0.226	31	
.0084	0.213		35
.008	0.203	32	

## "Strip" Force Chart\*

AWG	Wire Size		Min. number of turns (Bare Wire)	Min. strip force	
	Dia. inches	Dia. mm		lbs.	gms
16	.051	1.30	4	15	6800
18	.0403	1.00	4	15	6800
20	.032	0.80	5	8	3600
22	.0253	0.65	5	8	3600
24	.0201	0.50	6	7	3200
26	.0159	0.40	7	6	2700
28	.0126	0.32	7	5	2200
30	.0100	0.25	7	3.3	1500

\*Conforms to MIL-STD-1130B

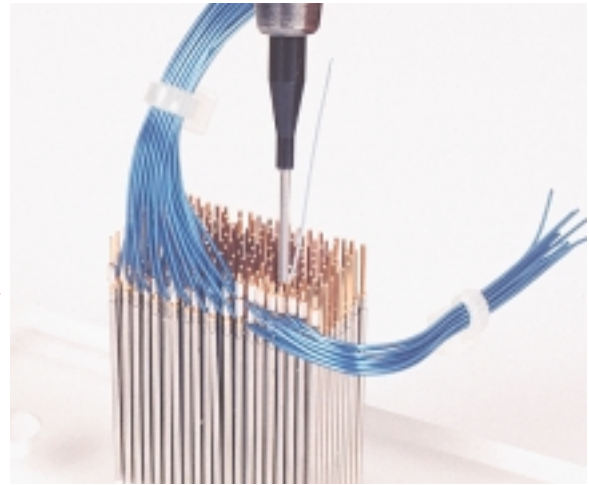
## Terminal Diagonal Chart

In.	.010	.015	.020	.025	.030	.035	.040	.045	.050	.055	.060	.065	.070	.075	.080	.085	.090	.095	.100
mm	.25	.38	.51	.64	.76	.89	1.02	1.14	1.27	1.40	1.52	1.65	1.78	1.91	2.03	2.16	2.29	2.41	2.54
.010	.014	.018	.022	.027	.032	.036	.041	.046	.051	.056	.061	.066	.071	.076	.081	.086	.091	.096	.101
.025	.036	.046	.056	.069	.081	.091	1.04	1.17	1.30	1.42	1.55	1.68	1.80	1.93	2.06	2.18	2.31	2.44	2.57
.015	.018	.021	.025	.029	.033	.038	.043	.047	.052	.057	.062	.067	.072	.077	.082	.087	.092	.097	.102
.038	.046	.053	.064	.074	.084	.097	1.09	1.19	1.32	1.45	1.58	1.70	1.83	1.96	2.08	2.21	2.34	2.46	2.59
.020	.022	.025	.028	.032	.036	.040	.045	.049	.053	.058	.063	.068	.073	.078	.083	.088	.093	.098	.103
.051	.056	.064	.071	.081	.091	1.02	1.14	1.25	1.35	1.47	1.60	1.73	1.85	1.98	2.11	2.24	2.36	2.49	2.62
.025	.027	.029	.032	.035	.039	.043	.047	.050	.056	.060	.065	.069	.074	.079	.084	.089	.094	.099	.104
.064	.069	.074	.081	.089	.099	1.09	1.19	1.27	1.42	1.52	1.65	1.75	1.88	2.01	2.13	2.26	2.39	2.52	2.64
.030	.032	.033	.036	.039	.042	.046	.050	.054	.058	.062	.067	.071	.076	.080	.085	.090	.095	.100	.105
.076	.081	.084	.091	.099	1.07	1.17	1.27	1.37	1.47	1.58	1.70	1.80	1.93	2.03	2.16	2.29	2.41	2.54	2.67
.035	.036	.038	.040	.043	.046	.049	.052	.056	.060	.064	.069	.073	.078	.082	.087	.091	.096	.101	.106
.089	.091	.097	1.02	1.09	1.17	1.25	1.32	1.42	1.52	1.63	1.75	1.85	1.98	2.08	2.21	2.31	2.44	2.57	2.69
.040	.041	.043	.045	.047	.050	.052	.056	.060	.064	.068	.072	.076	.080	.084	.089	.092	.097	.102	.107
1.02	1.04	1.09	1.14	1.19	1.27	1.32	1.42	1.52	1.63	1.73	1.83	1.93	2.03	2.13	2.26	2.34	2.46	2.59	2.72
.045	.046	.047	.049	.050	.054	.056	.060	.063	.067	.071	.074	.078	.083	.087	.091	.096	.101	.105	.109
1.14	1.17	1.19	1.25	1.27	1.37	1.42	1.52	1.60	1.70	1.80	1.88	1.98	2.11	2.21	2.31	2.44	2.57	2.67	2.77
.050	.051	.052	.053	.056	.058	.060	.064	.067	.071	.074	.078	.082	.086	.090	.094	.098	.103	.107	.111
1.27	1.30	1.32	1.35	1.42	1.47	1.52	1.63	1.70	1.80	1.88	1.98	2.08	2.18	2.29	2.39	2.49	2.62	2.72	2.82

# New Wire Wrap Tool For High Density Terminal Boards



**NEW**  
**JdV**  
**FROM**



JDV Products Inc. introduces the series 5000 and series 7500 Micro-Bit wire wrapping and unwrapping tools. These tools are designed for wrapping wire on .016 in. (0.4mm) square terminals in high-density connectors with pin center distances of .050 in. and .075 in. (1.27mm and 1.9mm)

The 5000 series is designed to work with .050 in. (1.27mm) pin spacing. The extreme density of these connectors make the use of conventional wire wrap tool designs impractical; there is no space to permit the use of a sleeve on the working end. Thus, the 5000 series Micro-Bit requires the use of a sleeve whose only function is to control bit rotation in a power tool.

The 7500 series is designed to work with .075 in. (1.9mm) pin spacing and are conventional wire wrap tools.

Both series are very small tools and require extra care when wire wrapping these applications.

## MICRO BIT WIRE WRAPPING TOOL—SERIES 5000

JDV PART NO	PIN DISTANCE		PIN SIZE INCH	WIRE DIAMETER		RETAINING SLEEVE PART NO.	WRAP TYPE
	INCH	MM		AWG	MM		
BRH5030	0.050	1.27	0.016 SQ.	30-32	0.20-0.25	S50	REGULAR

## MICRO BIT WIRE WRAPPING TOOL—SERIES 7500

JDV PART NO	PIN DISTANCE		PIN SIZE INCH	WIRE DIAMETER		SLEEVE PART NO.	WRAP TYPE
	INCH	MM		AWG	MM		
BMH7528	0.075	1.90	0.016 SQ.	28	0.032	S75	MODIFIED
BMH7530	0.075	1.90		30-32	0.20-0.25		

## MICRO WIRE WRAPPING HAND WRAP TOOL

JDV PART NO	PIN DISTANCE		PIN SIZE INCH	WIRE DIAMETER		WRAP TYPE
	INCH	MM		AWG	MM	
HR5030	0.050	1.27	0.016 SQ.	30-32	0.20-0.25	REGULAR
HM7528	0.075	1.90	0.016 SQ.	28	0.32	MODIFIED
HM7530	0.075	1.90		30-32	0.20-0.25	

## UNWRAP TOOL

JDV PART NO	TERMINAL HOLE DIAMETER		TERMINAL HOLE DEPTH	
	INCH	MM	INCH	MM
UHD 5075	0.022	0.56	0.50	12.70



S50 & BHD5030



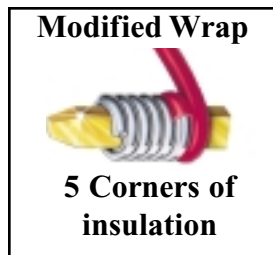
HR5030



UHD

# MODIFIED

## Wire Wrapping Bits and Sleeves Selection Chart



All Bits & Sleeves are  
Fully Compatible with any make or Model Wire Wrapping Tool.

AWG (inches)						Bit Part No.	Sleeve Part No.	METRIC (mm)					
Wire Gauge (AWG) Inches	Max Insulation Diameter Inches	Min/Max Terminal Diagonal Inches	Terminal Hole Depth Inches	Effective Radius Inches	Terminal Hole Diameter Inches			Terminal Hole Diameter mm.	Effective Radius mm.	Terminal Hole Depth mm.	Min/Max Terminal Diagonal mm.	Max Insulation Diameter mm.	Wire Gauge mm.
20	.058	.042/.073	1.000	.150	.075	BM20	S194LN	1.90	3.81	25.40	1.07/1.85	1.47	0.80
22	.060	.049/.073	1.000	.136	.075	BM22LI	S212	1.90	3.45	25.40	1.24/1.85	1.52	0.65
22	.054	.049/.074	1.000	.132	.075	BM22	S171	1.90	3.35	25.40	1.24/1.87	1.37	0.65
22-24	.050	.049/.074	1.250	.121	.075	BM224	S171	1.90	3.07	31.75	1.24/1.87	1.27	.50-.65
24	.046	.054/.073	1.750	.117	.075	BM24DD	S171	1.90	2.97	44.50	1.37/1.87	1.17	0.50
24	.044	.024/.043	0.750	.098	.044	BM2444*	S125LN*	1.11	2.48	19.05	0.60/1.09	1.11	0.50
24	.046	.054/.073	0.750	.118	.075	BM24	S171	1.90	2.99	19.05	1.07/1.85	1.17	0.50
24	.050	.049/.068	1.125	.118	.069	BM24D	S171	1.75	2.99	28.50	1.24/1.72	1.27	0.50
24	.046	.058/.073	1.125	.118	.075	BM24G	S171	1.90	2.99	28.50	1.47/1.85	1.17	0.50
24-26	.046	.054/.073	0.750	.118	.075	BM2426	S171	1.90	2.99	19.05	1.37/1.85	1.17	.40-.50
26	.031	.023/.038	0.750	.075	.040	BM2640*	S93*	1.02	1.90	19.05	0.58/0.96	0.79	0.40
26	.046	.054/.073	1.000	.118	.075	BM26	S171	1.90	2.99	25.40	1.37/1.85	1.17	0.40
26	.044	.028/.044	0.750	.098	.044	BM2644*	S125LN*	1.11	2.48	19.05	0.71/1.12	1.11	0.40
26	.042	.053/.068	1.000	.109	.069	BM2669	S159	1.75	2.77	25.40	1.34/1.72	1.04	0.40
26	.050	.053/.068	1.125	.118	.069	BM26D	S171	1.75	2.99	28.50	1.34/1.72	1.27	0.40
28	.030	.031/.035	0.750	.066	.036	BM28*	S93*	0.91	1.67	19.05	0.79/0.89	0.76	0.32
28	.034	.053/.068	1.000	.103	.070	BM2870	S159	1.78	2.61	25.40	1.35/1.72	0.86	0.32
28-29	.036	.033/.038	0.750	.091	.040	BM2840*	S125*	1.02	2.31	19.05	0.83/0.96	0.91	.29-.32
28	.034	.039/.044	0.750	.080	.045	BM2845*	S125*	1.11	2.03	19.05	1.00/1.12	0.86	0.32
30	.023	.030/.035	0.750	.061	.036	BM30SW*	S93*	.091	1.54	19.05	.099/1.06	0.58	0.25
30	.027	.031/.035	0.750	.064	.043	BM3043*	S93*	1.09	1.62	19.05	0.79/0.89	0.69	0.25
30	.027	.031/.035	0.750	.064	.036	BM30*	S93*	0.91	1.62	19.05	0.79/0.89	0.68	0.25
30	.023	.030/.035	0.750	.064	.036	BM30SI*	S93*	0.91	1.62	19.05	0.76/0.89	0.58	0.25
30	.027	.060/.064	1.000	.106	.066	BM3066	S159	1.67	2.70	25.40	1.52/1.62	0.69	0.25
30	.027	.027/.030	0.750	.066	.031	BM3031*	S93*	0.79	1.67	19.05	0.69/0.76	0.69	0.25
30-32	.027	.034/.038	0.750	.064	.040	BM3040*	S93*	1.02	1.62	19.05	0.86/0.96	0.69	.20-.25
30-32	.029	.062/.065	1.000	.100	.067	BM3068	S125LD	1.70	2.54	25.40	1.57/1.65	0.74	.20-.25
30	.027	.040/.044	0.750	.063	.045	BM3045*	S93*	1.11	1.60	19.05	1.00/1.12	0.69	0.25

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.



# REGULAR

## Wire Wrapping Bits and Sleeves Selection Chart



All Bits and Sleeves are Fully Compatible with any make or Model Wire Wrapping Tool.

AWG (inches)						Bit Part No.	Sleeve Part No.	METRIC (mm)					
Wire Gauge (AWG) Inches	Max Insulation Diameter Inches	Min/Max Terminal Diagonal Inches	Terminal Hole Depth Inches	Effective Radius Inches	Terminal Hole Diameter Inches			Terminal Hole Diameter mm.	Effective Radius mm.	Terminal Hole Depth mm.	Min/Max Terminal Diagonal mm.	Max Insulation Diameter mm.	Wire Gauge mm.
18	N/A	.060/.073	1.000	.150	.075	BR18	S194	1.90	3.81	25.40	1.52/1.85	N/A	1.00
19	N/A	.042/.073	1.000	.123	.075	BR19	S171	1.90	3.12	25.40	1.07/1.85	N/A	0.91
19-20	N/A	.091/.122	1.000	.150	.125	BR1920L	S212	3.17	3.81	25.40	2.31/3.09	N/A	.80-.91
20	N/A	.091/.122	1.000	.150	.125	BR20L	S212	3.17	3.81	25.40	2.31/3.09	N/A	.80-.91
20-22	N/A	.042/0.73	1.000	.123	.075	BR20	S171	1.90	3.12	25.40	1.07/1.85	N/A	.65-.80
22	N/A	.098/.122	0.625	.142	.125	BR22VL	S212	3.17	3.61	15.90	2.49/3.10	N/A	0.65
22	N/A	.061/.085	1.000	.125	.086	BR22T	S171	2.18	3.17	25.40	1.54/2.15	N/A	0.65
22	N/A	.054/.073	0.750	.117	.075	BR22	S171	1.90	2.97	19.05	1.37/1.85	N/A	0.65
22-24	N/A	.061/.085	1.000	.117	.086	BR224L	S171	2.18	2.97	25.40	1.54/2.15	N/A	.50-.65
22-24	N/A	.054/.073	1.000	.111	.075	BR224-1	S171	1.90	2.82	25.40	1.37/1.85	N/A	.50-.65
22-24	N/A	.054/.073	0.807	.111	.075	BR224	S171	1.90	2.82	20.50	1.37/1.85	N/A	.50-.65
24	N/A	.024.043	1.000	.083	.044	BR2444*	S125LN*	1.11	2.10	25.40	0.60/1.09	N/A	0.50
24	N/A	.055/.074	1.500	.100	.075	BR24D	S159	1.90	2.54	38.10	1.39/1.87	N/A	0.50
24	N/A	.073/.092	0.625	.124	.093	BR24S	S159	2.38	3.14	15.80	1.85/2.33	N/A	0.50
24	N/A	.055/.074	0.750	.100	.075	BR24	S159	1.90	2.54	19.05	1.39/1.87	N/A	0.50
24-26	N/A	.058/.073	0.750	.100	.075	BR2426	S159	1.90	2.54	19.05	1.47/1.85	N/A	.40-.50
24-26	N/A	.054/.065	1.000	.098	.066	BR2466	S125LD	1.67	2.48	25.40	1.37/1.65	N/A	.40-.50
26	N/A	.054/.073	1.000	.112	.075	BR16903	S159	1.90	2.84	25.40	1.37/1.85	N/A	0.40
26	N/A	.023/.038	0.750	.068	.040	BR2639*	S93LN*	1.02	1.72	19.05	0.58/0.96	N/A	0.40
26	N/A	.058/.073	1.000	.100	.075	BR26	S159	1.90	2.54	25.40	1.47/1.85	N/A	0.40
30-32	N/A	.034/.038	0.750	.064	.040	BR30*	S93*	1.02	1.62	19.05	0.86/0.96	N/A	.20-.25

## Extended (5" Long) Bits and Sleeves

Regular and Modified

22	N/A	.054/.073	0.750	.117	.075	BR22-5	S171-5	1.90	2.97	19.05	1.37/1.85	N/A	0.65
24	N/A	.055/.073	0.750	.100	.075	BR24-5	S159-5	1.90	2.54	19.05	1.39/1.87	N/A	0.50
26	N/A	.058/.073	1.000	.100	.075	BR26-5	S159-5	1.90	2.54	25.40	1.47/1.85	N/A	0.40
26	.031	.023/.038	0.750	.075	.040	BM2640-5*	S93LN-5*	1.02	1.90	19.05	0.58/0.96	0.79	0.40
30	.027	.031/.035	0.750	.064	.036	BM30-5*	S93-5*	0.91	1.62	19.05	0.79/0.89	0.69	0.25

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm on 2.54 mm centers.

# Hand Wrap/Unwrap Holder HH20



**NEW !!!**

This **NEW** tool is ideal for wrapping and unwrapping any size AWG wire. Any bit and sleeve (Regular or Modified) can be used in the **HH20** wrap/unwrap holder.

(Bits and Sleeves NOT included. See page 7 for bit and sleeve selections).

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## HH20 Series

- ◆ Accepts all bits 18 to 32 AWG
- ◆ Handle has rugged grooves to prevent slippage
- ◆ Collet allows operator to easily change bits/sleeves
- ◆ Lightweight



This product is made in Fair Lawn, NJ USA. For more information on our tools and accessories, please visit our company website at [www.jdvproducts.com](http://www.jdvproducts.com).



For Additional Information;

Please contact The JDV Products sales team at:

**201.796.1720**

# Hand Wrap/Unwrap Holder



HH20



Regular Wrap

## Regular Wrap Tools

Bit Part No.	Sleeve Part No.	Wire Gauge		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
		AWG	mm	In.	mm	In.	mm	In.	mm
BR18	SH194	18	1.00	.075	1.90	1.000	25.40	.250	6.35
BR19	SH171	19	0.91	.075	1.90	1.000	25.40	.214	5.43
BR1920L	SH212	19-20	0.80-0.91	.125	3.17	1.000	25.40	.250	6.35
BR20	SH171	20-22	0.65-0.80	.075	1.90	1.000	25.40	.214	5.43
BR22	SH171	22	0.65	.075	1.90	.750	19.05	.214	5.43
BR22VL	SH212	22	0.65	.125	3.17	.625	15.90	.250	6.35
BR22T	SH171	22	0.65	.086	2.18	1.000	25.40	.214	5.43
BR224L	SH171	22-24	0.50-0.65	.086	2.18	1.000	25.40	.214	5.43
BR224-1	SH171	22-24	0.50-0.65	.075	1.90	1.000	25.40	.214	5.43
BR224	SH171	22-24	0.50-0.65	.075	1.90	.807	20.50	.214	5.43
BR2444	SH125	24	0.50	.044	1.11	1.000	25.40	.158	4.01
BR24D	SH159	24	0.50	.075	1.90	1.500	38.10	.200	5.08
BR24S	SH159	24	0.50	.093	2.38	.625	15.80	.200	5.08
BR24	SH159	24	0.50	.075	1.90	.750	19.05	.200	5.08
BR2426	SH159	24-26	0.40-0.50	.075	1.90	.750	19.05	.200	5.08
BR2466	SH125	24-26	0.40-0.50	.066	1.67	1.000	25.40	.158	4.01
BR2639	SH93	26	0.40	.040	1.02	.750	19.05	.125	3.17
BR26	SH159	26	0.40	.075	1.90	1.000	25.40	.200	5.08
BR30	SH93	30-32	0.20-0.25	.040	1.02	.750	19.05	.125	3.17

## Unwrap

Unwrap Bit & Sleeve Set
UP70
UP70
-
UP70
UP70
-
-
-
UP70
UP70
UP70
-
UP70
UP70
UP70
UP36
UP70
-
UP70
UP70
UP70
UP36
UP70
UP36



Modified Wrap

## Modified Wrap Tools

Bit Part No.	Sleeve Part No.	Wire Gauge		Maximum Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
		AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm
BM20	SH194	20	0.80	.058	1.50	.075	1.90	1.000	25.40	.250	6.35
BM22LI	SH212	22	0.65	.060	1.47	.075	1.90	1.000	25.40	.250	6.35
BM22	SH171	22	0.65	0.54	1.32	.075	1.90	1.000	25.40	.214	5.43
BM24DD	SH171	24	0.50	.046	1.17	.075	1.90	1.750	44.50	.214	5.43
BM2444 *	SH125	24	0.50	.044	1.11	.044	1.11	.750	19.05	.158	4.01
BM24	SH171	24	0.50	.046	1.17	.075	1.90	.750	19.05	.214	5.43
BM24D	SH171	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.214	5.43
BM2426	SH171	24-26	0.40-0.50	.046	1.17	.075	1.90	.750	19.05	.214	5.43
BM2640 *	SH93	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
BM26	SH171	26	0.40	.046	1.17	.075	1.90	1.000	25.40	.214	5.43
BM2644 *	SH125	26	0.40	.044	1.17	.044	1.11	.750	19.05	.158	4.01
BM2669	SH159	26	0.40	.042	1.04	.069	1.75	1.000	25.40	.200	5.08
BM26D	SH171	26	0.40	.050	1.27	.069	1.75	1.125	28.50	.214	5.43
BM28 *	SH93	28	0.32	.030	0.76	.036	0.91	.750	19.05	.125	3.17
BM2870	SH159	28	0.32	.034	0.86	.070	1.78	1.000	25.40	.200	5.08
BM2840 *	SH125	28-29	0.29-0.32	.036	0.91	.040	1.02	.750	19.05	.158	4.01
BM3043 *	SH93	30	0.25	.027	0.69	.043	1.09	.750	19.05	.125	3.17
BM30 *	SH93	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
BM30SI *	SH93	30	0.25	.023	0.58	.036	0.91	.750	19.05	.125	3.17
BM30SW *	SH93	30	0.25	.023	0.58	.036	0.91	.750	19.05	.125	3.17
BM3066	SH159	30	0.25	.027	0.69	.066	1.67	1.000	25.40	.200	5.08
BM3031 *	SH93	30	0.25	.027	0.69	.031	0.79	.750	19.05	.125	3.17
BM3040 *	SH93	30-32	0.20-0.25	.027	0.69	.040	1.02	.750	19.05	.125	3.17
BM3068	SH125	30-32	0.20-0.25	.029	0.74	.067	1.70	.750	19.05	.158	4.01

## Unwrap

Unwrap Bit & Sleeve Set
UP70
UP70
UP70
UP70
UP36
UP70
UP70
UP70
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UP36
UP70

# Hand Wrapping/Unwrapping Tools



## Wrap Side

## Regular Wrap Tools

## Unwrapping Side



Part Number	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm
HWR18	18-19	1.00 0.91	-	-	.075	1.90	1.000	25.40	.250	6.35
HWR20	20	0.80	-	-	.075	1.90	1.000	25.40	.218	5.53
HWR22	22	0.65	-	-	.075	1.90	.750	19.05	.218	5.53
HWR224	22-24	0.50 0.65	-	-	.075	1.90	.807	20.50	.218	5.53
HWR224-1	22-24	0.50 0.65	-	-	.075	1.90	1.000	25.40	.218	5.53
HWR224L	22-24	0.50 0.65	-	-	.086	2.18	1.000	25.40	.218	5.53
HWR24	24	0.50	-	-	.075	1.90	.750	19.05	.218	5.53
HWR24D	24	0.50	-	-	.075	1.90	1.500	38.10	.218	5.53
HWR24SP	24	0.50	-	-	.075	1.90	.750	19.05	.187	4.74
HWR2426	24-26	0.40 0.50	-	-	.075	1.90	.750	19.05	.218	5.53
HWR2444 *	24	0.50	-	-	.044	1.11	1.000	25.40	.156	3.96
HWR26	26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53

Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
In.	mm	In.	mm	In.	mm
.075	1.90	1.000	25.40	.187	4.74
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.086	2.18	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.038	0.96	1.000	25.40	.093	2.36
.070	1.77	1.000	25.40	.156	3.96

## Wrap Side

## Modified Wrap Tools

## Unwrapping Side



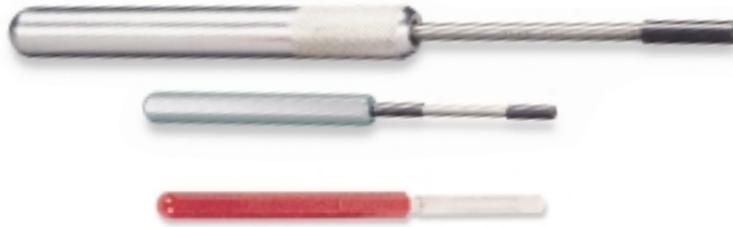
Part Number	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm
HWM22	22	0.65	.052	1.32	.075	1.90	1.000	25.40	.218	5.53
HWM24	24	0.50	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HWM24D	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53
HWM2444 *	24	0.50	.044	1.11	.044	1.11	.750	19.05	.156	3.96
HWM26	26	0.40	.046	1.17	.075	1.90	1.000	25.40	.218	5.53
HWM2640 *	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
HWM28	28	0.32	.030	0.76	.036	0.91	.750	19.05	.125	3.17
HWM2840 *	28-29	0.29 0.32	.036	0.91	.040	1.02	.750	19.05	.156	3.96
HWM30 *	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HWM3066	30	0.25	.027	0.69	.066	1.67	1.000	25.40	.218	5.53

Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
In.	mm	In.	mm	In.	mm
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.070	1.77	1.000	25.40	.156	3.96
.038	0.96	1.000	25.40	.093	2.36
.070	1.77	1.000	25.40	.156	3.96
.038	0.96	1.000	25.40	.093	2.36
.038	0.96	1.000	25.40	.093	2.36
.038	0.96	1.000	25.40	.093	2.36
.070	1.77	1.000	25.40	.156	3.96

\*These tools are recommended for .025 (0.63mm) square terminals on .100 (2.54mm) centers



# Hand Wrapping Tools



## Regular Wrap Tools

Part No.	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
HR18	18-19	1.00-0.91	-	-	.075	1.90	1.000	25.40	.250	6.35
HR1920L	20	0.80	-	-	.125	3.17	1.000	25.40	.250	6.35
HR1920	20	0.80	-	-	.075	1.90	1.000	25.40	.218	5.53
HR22	22	0.65	-	-	.075	1.90	.750	25.40	.218	5.53
HR22VL	22	0.65	-	-	.125	3.17	.625	15.09	.250	6.35
HR224	22-24	0.65-0.50	-	-	.075	1.90	.807	20.50	.218	5.53
HR224-1	22-24	0.65-0.50	-	-	.075	1.90	1.000	25.40	.218	5.53
HR224L	22-24	0.65-0.50	-	-	.086	2.18	1.000	25.40	.218	5.53
HR24	24	0.50	-	-	.075	1.90	.750	19.05	.218	5.53
HR24D	24	0.50	-	-	.075	1.90	1.500	38.10	.218	5.53
HR24S	24	0.50	-	-	.093	2.38	.625	15.87	.218	5.53
HR2444	24	0.50	-	-	.044	1.11	1.000	25.40	.156	3.96
HR2426	24-26	0.50-0.40	-	-	.075	1.90	.750	19.05	.218	5.53
HR26	26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53
HR2268A	22-24	0.65-0.50	-	-	.075	1.90	1.500	38.1	.187	4.70



## Modified Wrap Tools

Part No.	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
HM20	20	0.80	.058	1.47	.075	1.90	1.000	25.40	.250	6.35
HM22	22	0.65	.052	1.32	.075	1.90	1.000	25.40	.218	5.53
HM24	24	0.50	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HM24D	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53
HM2444 *	24	0.50	.044	1.11	.044	1.11	.750	19.05	.156	3.96
HM2426	24-26	0.50-0.40	.046	1.17	.075	1.90	.750	19.05	.218	5.53
HM26	26	0.40	.046	1.17	.075	1.90	1.000	25.40	.218	5.53
HM2640 *	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
HM2669	26	0.40	.041	1.04	.069	1.75	1.000	25.40	.218	5.53
HM2840 *	28-29	0.32-0.29	.036	0.91	.040	1.02	.750	19.05	.156	3.96
HM30 *	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HM30SP *	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17
HM3066	30	0.25	.027	0.69	.066	1.67	1.000	25.40	.218	5.53
HM3040 *	30	0.25	.027	0.69	.040	1.02	.750	19.05	.125	3.17
HM3043 *	30	0.25	.027	0.69	.043	1.09	.750	19.05	.125	3.17



# Wrap/Strip/Unwrap Tools

## Regular Wrap Tools

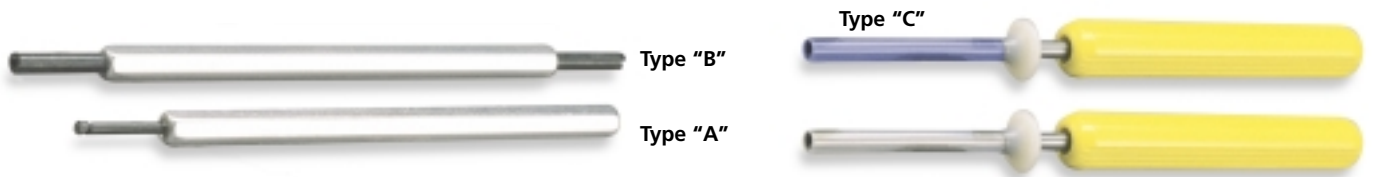


Part No.	Wire Size		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	In.	mm	In.	mm	In.	mm
HSR224	22-24	0.65-0.50	.075	1.90	1.50	38.1	.213	5.4
HSR30	30	0.25	.036	0.91	1.50	38.1	.125	3.18

## Modified Wrap Tools

Part No.	Wire Size		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
	AWG	mm	In.	mm	In.	mm	In.	mm
HSM24	24	0.50	.075	1.90	1.50	38.1	.213	5.4
HSM26	26	0.40	.075	1.90	1.50	38.1	.213	5.4
HSM30	30	0.25	.036	0.91	1.50	38.1	.125	3.18

## Hand Unwrapping Tools



Part No.	Type	Wire Size		Direction Of Unwrap		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
		AWG	mm	CCW ↺ (L)	CW ↻ (R)	Inches	mm	Inches	mm	Inches	mm
HU75	A	18-19	1.00-0.91	*		.075	1.90	1.000	25.40	.187	4.74
HU1	A	20-26	0.80-0.40	*		.070	1.77	1.000	25.40	.156	3.96
HU2	B	20-26	0.80-0.40	*	*	.070	1.77	1.000	25.40	.156	3.96
HU4	C	20-26	0.80-0.40	*		.070	1.77	2.360	60.00	.187	4.74
HU5	C	20-26	0.80-0.40	*	*	.070	1.77	2.360	60.00	.187	4.74
HU7	A	20-26	0.80-0.40	*		.086	2.18	.750	19.05	.156	3.96
HU8	A	20-26	0.80-0.40	*		.070	1.77	1.500	38.10	.120	3.04
HU52	A	20-26	0.80-0.40	*		.052	1.32	1.000	25.40	.120	3.04
HU52RL	B	20-26	0.80-0.40	*	*	.052	1.32	1.000	25.40	.120	3.04
HU5270	B	20-26	0.80-0.40	*		.052	1.32	1.000	25.40	.120	3.04
		20-26	0.80-0.40	*		.070	1.77	1.000	25.40	.120	3.04
HU120	A	20-26	0.80-0.40	*		.070	1.77	1.000	25.40	.120	3.04
HU120RL	B	20-26	0.80-0.40	*	*	.070	1.77	1.000	25.40	.120	3.04
HU93120	B	24-32	0.50-0.20	*		.038	0.96	1.000	25.40	.093	2.36
		20-26	0.80-0.40	*		.070	1.77	1.000	25.40	.120	3.04
HU93	A	24-32	0.50-0.20	*		.038	0.96	1.000	25.40	.093	2.36
HU93L	A	24-32	0.50-0.20		*	.038	0.96	1.000	25.40	.093	2.36
HU93RL	B	24-32	0.50-0.20	*	*	.038	0.96	1.000	25.40	.093	2.36
HU3	C	28-32	0.32-0.20	*	*	.038	0.96	.750	19.05	.156	3.96
HU45	A	20-26	0.80-0.40	*		.045	1.14	1.000	25.40	.120	3.04

## Micro Hand Wrap/Strip Tool MT30R & MT30M (Regular or Modified 30AWG)



Unlike other economy tools, this unique product features the following:

- High Quality Nickel Coated Brass Handle
- Bits are securely locked in with a collet allowing the operator to replace the bits easily without disposal of the entire tool.
- **This Micro Hand Wrap Tool available for Regular or Modified 30 AWG wraps.**
- Swivel End Cap is ergonomically designed to allow the operator to turn the tool effortlessly while fitting comfortable in the palm of the hand.
- Knurled Body is safety designed for preventing slippage.
- Storage cavity within handle for 30AWG wire stripper.



**Knurled Body is designed to prevent slippage.**



**Wire Stripper stored inside handle cavity.  
(Stripper Included).**



**Collet enables the operator to perform a quick bit change  
without disposal of the entire tool.**

## Bit Extensions

Part No.	Extension	
	Inches	mm
EX2	2.0	50
EX3	3.0	70
EX4	4.0	100

Fits all Electric, Pneumatic and Manual wire wrapping tools.  
Compatible with all bits and sleeves made for Power Wire Wrapping Tools.



## Wire Wrap Kits

This complete telecom wire wrap tool kit is designed to provide field service with a complete line of tools to perform regular wraps, unwrap and strip wires in two wire gauge sets - 22 & 24 or 22 & 26.\*

The tool kit includes:

- (1) Holster P/N TH250
- (1) Manual wire wrap gun P/N WG200-R3278
- (1) Wire stripper P/N WS100-224 or P/N WS100-2426
- (1) Hand wrap tool P/N HWR224 or P/N HWR2426
- (1) Bit and sleeve set P/N BR224+S171 or P/N BR2426+S171

Note: we will customize your kit with alternate bits, sleeves and wrap tool to meet your specific requirements.

Part No.	Description
KTW224	Wire Wrap Kit For 22-24 AWG
KTW2426	Wire Wrap Kit For 24-26 AWG

\* Other wire gauge sets are available upon request.



Part No.	Description			Bit & Sleeve Set	
	Wrap	AWG	Terminal Hole DIA		
KT22B	Regular	22	.075	BR 22	S171B
KT224B	Regular	22-24	.075	BR 224	S171B
KT24Y	Regular	24	.075	BR 24	S159Y
KT26G	Regular	26	.075	BR 26	S159G
KT26R	Modified	26	.040	BM2640	S93R
KT28B	Modified	28	.036	BM28	S93B
KT30W	Modified	30	.036	BM30	S93W



## Insulated Sleeves

Part No.	Description
S171B	S171 with 1" Blue Insulation
S171R	S171 with 1" Red Insulation
S159Y	S159 with 1" Yellow Insulation
S159G	S159 with 1" Green Insulation
S93B	S93 with 3/4" Blue Insulation
S93R	S93 with 3/4" Red Insulation
S93W	S93 with 3/4" White Insulation



# Cut-Strip-Wire (CSW) Bit and Sleeve Sets



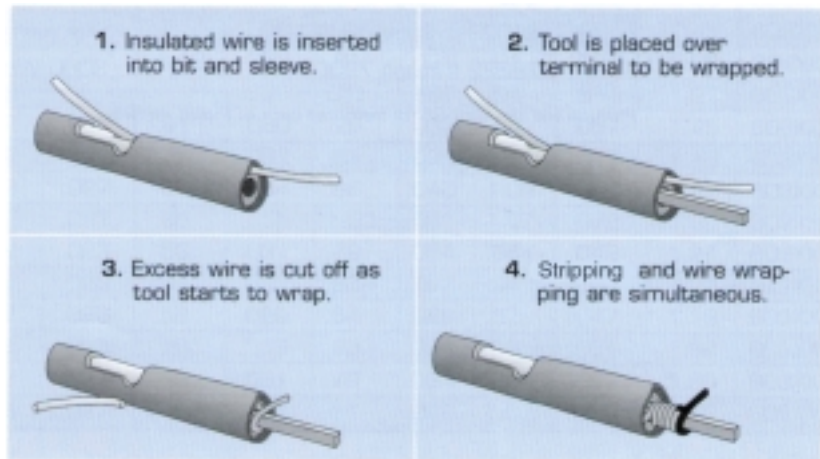
**CSW Bit and Sleeve Sets** make reliable wire wrapped connections directly from a cable, wire harness or reel. The CSW bit and sleeve tool cuts off the excess wire, strips the proper length of insulation and wraps the correct number of turns in one operation. Used like conventional bits and sleeves the CSW tool set requires no special training.

- **Eliminates pre-cutting, pre-stripping**
- **Cuts-Strips-Wraps in one operation**
- **Easy front-loading as with standard bits**
- **Ideal for terminating cables and wire harnesses**
- **Increases productivity**

\*For use only with PNEUMATIC tools without back force or ELECTRIC tools without back force. Recommended for use with JDV Products Inc.'s **LOW STRIP FORCE Kynar® Wire** (Page 22).

For other wires, please send us a sample for evaluation.

## Four Steps to a CSW Wire Wrapped Connection





### Cut-Strip-Wrap (CSW) Bit and Sleeve Sets

Bit & Sleeve Part Number	Wire Size			Type Wrap		Terminal Diagonal				Terminal Hole				Min. Terminal Spacing		Wire Insulation Dia.			
	AWG	In.	mm	Reg	Mod	Max.		Min.		Diameter		Depth		In. mm		Max.		Min.	
Matched sets						In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
CSW26M36	26	.016	0.40		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.030	0.76	.026	0.66
CSW28M36	28	.012	0.32		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.025	0.63	.022	0.56
CSW30M36	30	.010	0.25		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.021	0.61	.019	0.48

# Manual Wire Wrapping Tools & Accessories



Collet Style	Tool	Aluminum Housing Tool	Plastic Housing Tool
<b>CLAMP</b> 	Wrap	WG100 KS16363L1 *	WG200
	Unwrap	WG100 - C3394	WG200 - C3394
<b>CHUCK</b> 	Wrap	WG100 - R3278 KS16363L2 * CK16363L2 *	WG200 - R3278 KS16363L3 * CK16363L3 *
	Unwrap	WG100 - R3394	WG100 - R3394

\* KS and CK numbers are Western Electric, AT&T and Lucent part numbers.

## "SG" Type Sleeves

for use with "clamp style" tools

Part No.	Insulation Color
SG171B	Blue
SG171R	Red
SG159Y	Yellow
SG159G	Green



## Unwrap Tools

For Clamp Style Tools						
Unwrap Tool Set Part No.	Sleeve Part No.	Bit				
		Part No.	Wire size In mm	Term.Hole In mm		
UM 70	SM171	BU70	22	0.65	.070	1.77
			26	0.40		
UM 36		BU36	24	0.50	.036	0.96
			32	0.20		

For Chuck Style & Power Tools						
Unwrap Tool Set Part No.	Sleeve Part No.	Bit				
		Part No.	Wire size In mm	Term.Hole In mm		
UP 70	SP171	BU70	22	0.65	.070	1.77
			26	0.40		
UP 36		BU36	24	0.50	.036	0.96
			32	0.20		



SM171 Sleeve



BU70 Unwrap Bit



SP171 Sleeve

# Electric / Battery Powered Wire Wrapping/Unwrapping Tools

## AC-Powered Wire Wrapping Tools



The WG601 series AC-Powered Electric Tools are a heavy-duty, rugged design for all of your Wire Wrapping needs.

- ◆ Operator Adjustable indexing position of the bit to suit individual preference.
- ◆ High quality electric motor provides steady performance for light to heavy production.
- ◆ High impact-resistant plastic housing.
- ◆ Ergonomically designed to reduce operator strain and fatigue.
- ◆ Planetary gear reduction drive, insulated collet and collet nut, light trigger action and two-wire cord.
- ◆ Double insulated.
- ◆ Weight: 18oz

Part Number	Type	Voltage	HZ	Speed	Production	Wire Size
WG601	Standard	120	60	4500 RPM	Light-Heavy	18-32 AWG
WG601BF	Backforce	120	60	4500 RPM	Light-Heavy	18-32 AWG

\*\* (For 220/230 Volt, please call JDV Products Inc. at 201-796-1720) \*\*

## Battery-Powered Wire Wrapping & Unwrapping Tool



The WG500 series lightweight portable Wire Wrapping Tool can be used on the bench or in remote Central Office locations.

- ◆ Ideal for jobs without a convenient power source.
- ◆ Ergonomically designed to reduce operator strain and fatigue.
- ◆ Operator Adjustable indexing position of the bit to suit individual preference
- ◆ Self-aligning gearing system reduces part breakage and repairs.
- ◆ Reduced electrical interference.
- ◆ Compact charger unit (included) recharges batteries in one hour.
- ◆ 1100 connections with one charge.
- ◆ Standard rechargeable and non-rechargeable C batteries may be used in an emergency basis.
- ◆ High impact-resistant plastic housing.
- ◆ Weight: 14oz

Part Number	Type	Voltage	HZ	Speed	Production	Wire Size
WG500	Standard	120	60	3000 RPM	Light-Med	22-32 AWG
WG500BF	Backforce	120	60	3000 RPM	Light-Med	22-32 AWG

# Air Powered Wire Wrapping Tools And Accessories

## Pneumatic Wire Wrapping Tools

**WG300** - perfectly balanced and lightest pneumatic wire wrapping tool available, designed to operate at 80-110 PSI (6-7 BAR). **WG300** is rated for heavy duty application wrapping **18AWG** wire yet it is ideal tool for delicate **32 AWG** work.



**WG300**

**NEW**  
**Jdv**  
**FROM**

Part No.	Backforce	Speed	Weight	Wire Size
WG300		4500RPM	110z.	18 thru 32 AWG
WG300BF		4500RPM	300g	1.0mm thru 0.20mm

## Triggerless Pneumatic Wire Wrapping Tools

**WG400** - Triggerless / Ergonomic air wire wrapping tool designed for high production environment reducing wire wrapping muscle fatigue. This triggerless tool combined with **WAC400** air logic controller uses 3 psi back-pressure signal to operate the tool requiring only slightest movement of the thumb over a small air sensor hole.



**WG400**

Part No.	Description
WG400	Triggerless air logic tool
WG400BF	Triggerless backforce air tool
WAC400	Air logic controller



**WAC400**

**NEW**  
**Jdv**  
**FROM**

## Air Regulating System

**WAC100** - All air powered tools require an air supply that is properly lubricated, regulated and filtered. The **WAC100** is a precision oiler and regulating system in one compact unit. For use with **WG300/400** as well as all other pneumatic tools.



**WAC100**



# Wire Cut and Strip Attachment for Pneumatic Wire Wrap Tools



**WS500** wire cut and strip attachment increases productivity by eliminating the need for two tools.

The precision design allows easy adjustment of strip lengths within a range of 11/16" to 2".

The **WS500** easily slips on a **WG300** or **WG400** model pneumatic wire wrapping tool and is easily secured with two set screws.

The rugged mounting bracket will endure the rigors of everyday use.

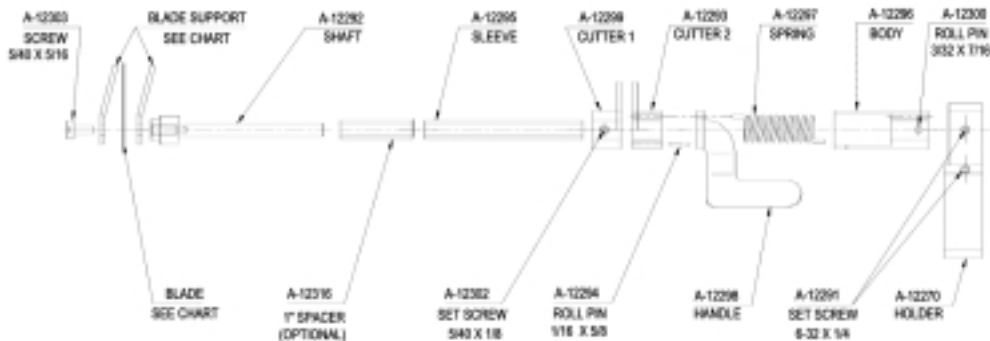
Cuts & strips 22-30AWG Kynar™ and all PVC type insulations from reel or harness without nicking the conductor.

(Left)  
Example of WS500 mounted on WG300 Pneumatic Wire Wrapping Tool.

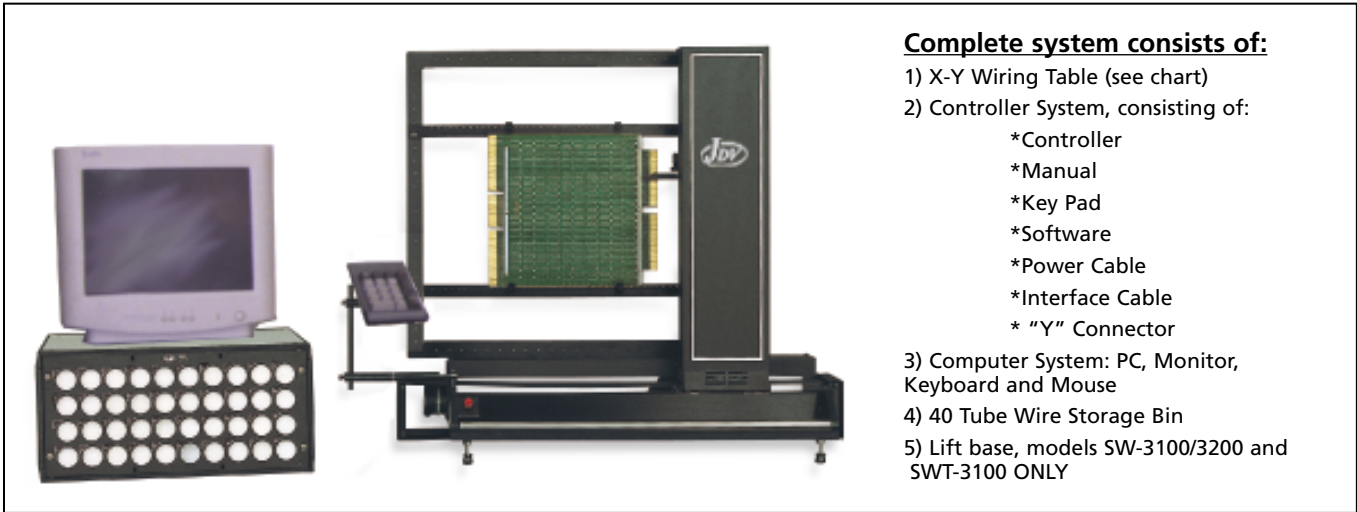
### WS500 Series

Part No.	Wire Size		Adjustable Strip-Off Length		Replacement Blades Part No.
	AWG	mm	Inches	Inches	
WS500-22	22	0.65	11/16" to 2"	17.46 to 50	WSG22
WS500-24	24	0.50	11/16" to 2"	17.46 to 50	WSG24
WS500-224	22-24	0.65-0.50	11/16" to 2"	17.46 to 50	WSG224
WS500-26	26	0.40	11/16" to 2"	17.46 to 50	WSG26
WS500-2426	24-26	0.50-0.40	11/16" to 2"	17.46 to 50	WSG2426
WS500-28	28	0.32	11/16" to 2"	17.46 to 50	WSG28
WS500-30	30	0.25	11/16" to 2"	17.46 to 50	WSG30

\*Optional spacer is available to maintain a 1inch strip length. See illustration below for part number



# SW SEMI-AUTOMATIC WIRE WRAPPING SYSTEM



**Complete system consists of:**

- 1) X-Y Wiring Table (see chart)
- 2) Controller System, consisting of:
  - \*Controller
  - \*Manual
  - \*Key Pad
  - \*Software
  - \*Power Cable
  - \*Interface Cable
  - \* "Y" Connector
- 3) Computer System: PC, Monitor, Keyboard and Mouse
- 4) 40 Tube Wire Storage Bin
- 5) Lift base, models SW-3100/3200 and SWT-3100 ONLY

The SW-1100, SW-2100 and SW-3100 Semi Automatic Wire Wrapping Systems are designed to significantly speed up the wire wrapping process by pointing the operators wire wrap tool to the correct pins and giving the operator step-by-step instruction through on-screen prompts, thus guiding the operator through the entire wire wrapping process. The result is a 10-fold increase in production rate and the potential for significant reduction in technician error over manual wire wrapping. The systems are designed for ease-of-use, and are significantly more cost-effective than fully-automatic systems.

The newly designed Rapid Wrap System Controller incorporates many new features/benefits, including:

- \* Parts programming in industry-proven ASCII format. User selectable units of measure.
- \* Very simple WIN95/98 user interface.
- \* Maintains a time-stamped text log file of activities such as: Starting and finishing a job, last position (in case of power failures), user and supervisor logins/logouts.
- \* Easily networkable through WIN95/98 networking.
- \* Prompts the operator with wire bin numbers, thus reducing potential for human error.

SYSTEMS	
SW1100	Complete System with 20x20 X-Y Table
SW2100	Complete System with 40"x 30" X-Y Table
SW3100	Complete System with 40"x 30" X-Y Table and Lift Base
SW1200 *	System Without Computer
SW2200 *	System Without Computer
SW3200 *	System Without Computer

•• Please call for "computer minimum requirements"



SWT2100

System Components	
SWB40	40 Tube Wire Storage Bin
SWC2000	Controller System With Software
SWS2000	Computer System
SWT1100	X-Y Wiring Table 20"x 20" Wire Area
SWT2100	X-Y Wiring Table 40"x 30" Wire Area
SWT3100	X-Y Wiring Table 40"x 30" With Electric Lift Base
SWRCC	Retrofit Connector Cable Assembly
SWLB115	Electric Lift Base, 115 Volts
SWLB230	Electric Lift Base, 230 Volts



SWS2000

SWC2000

SW System	Tables			Computer System SWS- 2000	Controller w/Software SWC- 2000	Wire Bin SWB-40
	SWT1100	SWT 2100	SWT 3100			
SW1100	•			•	•	•
SW2100		•		•	•	•
SW3100			•	•	•	•
SW1200	•				•	•
SW2200		•			•	•
SW3200			•		•	•



SWB40

Note: Systems available in 110VAC 50/60Hz or 230VAC 50/60Hz- Customer should specify.

# Wire Cut and Strip Tools

## WS100 Series

Part No.	Wire Size		Adjustable Strip-Off Length	
	AWG	mm	Inches	mm
WS100-22	22	0.65	1-5/16" to 1-9/16"	33.33 to 39.68
WS100-224	22-24	0.65-0.50	1-5/16" to 1-9/16"	33.33 to 39.68
WS100-24	24	0.50	1-5/16" to 1-9/16"	33.33 to 39.68
WS100-24S	24	0.50	7/8" to 1-1/8"	22.22 to 28.57
WS100-2426	24-26	0.50-0.40	1-5/16" to 1-11/16"	33.33 to 42.86
WS100-26	26	0.40	1-5/16" to 1-11/16"	33.33 to 42.86
WS100-26L	26	0.40	1-1/2" to 2"	38.10 to 50.80
WS100-26S	26	0.40	7/8" to 1-1/8"	22.22 to 28.57
WS100-28	28	0.32	7/8" to 1-1/8"	22.22 to 28.57
WS100-30	30	0.25	7/8" to 1-1/8"	22.22 to 28.57
WS100-30L	30	0.25	1-5/16" to 1-9/16"	33.33 to 39.68



A compact simple tool for easy and clean stripping of wires for wire wrapping, electronic and appliance applications. Designed for maximum efficiency. Easy to operate... place wire (up to 4) in stripping slot with ends extending beyond cutter blades... press tool and pull... wire is cut and stripped to proper "wire wrapping" length. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Strip length easily adjustable for your application.

## WS3907 Series

Part No.	Wire Size		Adjustable Strip-Off Length	
	AWG	mm	Inches	mm
WS3907-22	22	0.65	1-1/2" to 1-3/4"	38.10 to 44.45
WS3907-224	22-24	0.65-0.50	1-1/2" to 1-3/4"	38.10 to 44.45
WS3907-24	24	0.50	1-1/2" to 1-3/4"	38.10 to 44.45
WS3907-24L	24	0.50	1-1/2" to 1-3/4"	55.80
WS3907-2426	24-26	0.50-0.40	1-1/2" to 1-3/4"	38.1to44.5
WS3907-26	26	0.40	1-1/2" to 1-3/4"	38.10 to 44.45
WS3907-26L	26	0.40	2"	55.80
WS3907-28	28	0.32	7/8" to 1-1/8"	22.22 to 28.57
WS3907-30	30	0.25	7/8" to 1-1/8"	22.22 to 28.57



For applications requiring multiple cuts and strips of the same gauge wire, the WS3907 is the most effective tool. Easy to operate... place the wires in the stripping slot at the desired shiner (strip-off) length with the end between the cutting blades. Squeeze tool and pull... wire is cut and stripped to the "proper "wire wrapping length". The plastic grips and soft rubber sleeve assures maximum handling comfort and slip-free gripping. Stripping blades are easily replaceable.

## WS4473 Series

Part No.	Wire Size		Adjustable Strip-Off Length	
	AWG	mm	Inches	mm
WS4473	22-24	0.65-0.50	7/8"	22.2
	24-26	0.50-0.40		
WS4473C	22-24	0.65-0.50	to	to
	24-26	0.50-0.40		
	28	0.32		
	30	0.25		



When combinations of wire gauges and longer strip-off lengths are required, the WS4473 should be selected. Two models are available. The WS4473 is furnished with combination blades for 22 to26 AWG wire and the WS4473C is furnished with combination and single blades for 22 to30 AWG wire. Blades are easily interchangeable on the blade post. Tool is furnished with rust-resistant, oiled, black oxide coating and soft sponge-like grips.

## WS 200 Series THE "GATLING"

Part No.	Wire Size		Adjustable Strip-Off Length	
	AWG	mm	inch	mm
*WS201	22	0.65	1-1/8"	28.6
	24	0.50	to	to
	26	0.40	2"	50.8
*WS202	26	0.40	7/8"	22.2
	28	0.32	to	to
	30	0.25	1-1/8"	28.6



The "Gatling" hits all the targets! It is the latest innovative tool from JDV Products. Two models are available, each with a triple stripper (three wire gaps) in one tool. The WS201 will cut and strip 22, 24 and 26 AWG wire with no blade change required. The WS202 will cut and strip 26, 28 and 30 AWG wire with no blade change required. Each tool is equipped with an easy to use dial mechanism which will move the blade along the blade post to vary shiner (strip-off) length.

\*WS200 Series tools accepts WSB246 & WSB683 blades only

# Blade and Blade Support Replacements

## Fully Interchangeable Blades



Blade Assembly

Blade Assembly			
Part No.	wire AWG	size MM	Replacement Blades Assy
WSA20	20	0.8	20 GA BLADE ASSY
WSA22	22	0.65	22 GA BLADE ASSY
WSA24	24	0.5	24 GA BLADE ASSY
WSA26	26	0.4	26 GA BLADE ASSY
WSA28	28	0.32	28 GA BLADE ASSY
WSA30	30	0.25	30 GA BLADE ASSY
WSA224	22&24	0.65 & 0.50	22/24 GA BLADE ASSY
WSA2426	24&26	0.50 & 0.40	24/26 GA BLADE ASSY
WSA246	22,24&26	0.65,0.50&0.40	22/24/26 GA BLADE ASSY
WSA683	26,28&30	0.40,0.32&0.25	26/28/30 GA BLADE ASSY

Replacement Parts	
Blade Only	Blade Supports
WSB20	WSS1820
WSB22	WSS2030
WSB24	WSS2030
WSB26	WSS2030
WSB28	WSS2030
WSB30	WSS2030
WSB224	WSS224
WSB242	WSS2426
WSB246	WSS246
WSB683	WSS683



Blade



Blade Supports (Set of 2)

Replacement blades are interchangeable between **WS100**, **WS3907**, and **WS4473** wire stripping tools. These fine blades are made from specially tempered spring steel. The stripping slot is carefully centered within the blade to ensure clean, no nick stripping. The replacement blade support sections are made of heat treated plated steel. They are designed to accurately center the slots of the stripping blade, making possible clean, nick-free wire stripping. Easy replacement.

## Pneumatic Wire Cutter



Wire Cutter	GT-N3/SL
Cutting Blade	N3BBH90

Unique, ergonomically designed air tool used in applications for cutting wire. A safety lever prevents accidental closings. This unit has a unique base design capable of turning 360 degrees and allows the unit to be rotated for ease of operation by a left or right-handed person.

**The high speed steel blade is designed to trim component leads on thru-hole printed circuit boards.** Easy to maintain, the blade can be replaced in less than a minute. Different models of blades are available for other applications.

## Double Action Air Scissors

Part No.	Capacity (mm)			b (mm)	Frame diameter (mm)	Weight (g)	Air consumption cnl/Stroke	Pressure (kgf)	Working air pressure (kgf/cnl)
	copper	steel	hard plastic						
GT-HWR1	1.0	0.5		95	20	84	45	30	4~5

### Operated By Air Foot Valve



GT-HWR1

Product No.	Blade opening Max.(mm)	Cutting blade effective (mm)	A
HW1J	3.0	17	25



## Wire Wrapping Wire - Rolls

- \* Kynar insulated wire \* Silver plated copper wire conductor
- \* UL listed \* Standard spool sizes: 100, 500 & 1000 ft.
- \* Standard colors: blue, black, red, yellow & white
- \* Standard wire gauges: 24, 26, 28 & 30
- \* Additional colors, wire gauges and larger roll sizes may be available



### 24 Awg (0.50mm) Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.030" (0.76mm)	100ft. (30.4m)	WR24W-C	WR24Y-C	WR24B-C	WR24R-C	WR24BL-C
	500ft. (152m)	WR24W-D	WR24Y-D	WR24B-D	WR24R-D	WR24BL-D
	1000ft. (304m)	WR24W-M	WR24Y-M	WR24B-M	WR24R-M	WR24BL-M

### 26 Awg (0.40mm) Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.027" (0.69mm)	100ft. (30.4m)	WR26W-C	WR26Y-C	WR26B-C	WR26R-C	WR26BL-C
	500ft. (152m)	WR26W-D	WR26Y-D	WR26B-D	WR26R-D	WR26BL-D
	1000ft. (304m)	WR26W-M	WR26Y-M	WR26B-M	WR26R-M	WR26BL-M

### 28 Awg (0.32mm) Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.024" (0.60mm)	100ft. (30.4m)	WR28W-C	WR28Y-C	WR28B-C	WR28R-C	WR28BL-C
	500ft. (152m)	WR28W-D	WR28Y-D	WR28B-D	WR28R-D	WR28BL-D
	1000ft. (304m)	WR28W-M	WR28Y-M	WR28B-M	WR28R-M	WR28BL-M

### 30 Awg (0.25mm) Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.0195" (0.50mm)	50ft. (15.2m)	WR30W-L	WR30Y-L	WR30B-L	WR30R-L	WR30BL-L
	100ft. (30.4m)	WR30W-C	WR30Y-C	WR30B-C	WR30R-C	WR30BL-C
	500ft. (152m)	WR30W-D	WR30Y-D	WR30B-D	WR30R-D	WR30BL-D
	1000ft. (304m)	WR30W-M	WR30Y-M	WR30B-M	WR30R-M	WR30BL-M

### Pre-Cut & Pre-Stripped Wire - 30 AWG (0.25mm)

- \* Strip off length both ends 1" (25.4mm) \* Kynar™ insulated \* Silver plated copper conductor
- \* Insulation diameter .0195" (0.50mm) \* 500 and 50 PC packs \* UL listed



Insulation	Length	50 Piece Packages			
Inch	mm.	White	Yellow	Blue	Red
1	25	W30W010-L	W30Y010-L	W30B010-L	W30R010-L
2	51	W30W020-L	W30Y020-L	W30B020-L	W30R020-L
3	76	W30W030-L	W30Y030-L	W30B030-L	W30R030-L
4	101	W30W040-L	W30Y040-L	W30B040-L	W30R040-L
5	127	W30W050-L	W30Y050-L	W30B050-L	W30R050-L
6	152	W30W060-L	W30Y060-L	W30B060-L	W30R060-L

Insulation	Length	500 Piece Packages				
Inch	mm.	White	Yellow	Blue	Red	Black
1	25	W30W010	W30Y010	W30B010	W30R010	W30BL010
1.5	38	W30W015	W30Y015	W30B015	W30R015	W30BL015
2	51	W30W020	W30Y020	W30B020	W30R020	W30BL020
2.5	63	W30W025	W30Y025	W30B025	W30R025	W30BL025
3	76	W30W030	W30Y030	W30B030	W30R030	W30BL030
3.5	89	W30W035	W30Y035	W30B035	W30R035	W30BL035
4	101	W30W040	W30Y040	W30B040	W30R040	W30BL040
4.5	114	W30W045	W30Y045	W30B045	W30R045	W30BL045
5	127	W30W050	W30Y050	W30B050	W30R050	W30BL050
6	152	W30W060	W30Y060	W30B060	W30R060	W30BL060
7	178	W30W070	W30Y070	W30B070	W30R070	W30BL070
8	203	W30W080	W30Y080	W30B080	W30R080	W30BL080
9	228	W30W090	W30Y090	W30B090	W30R090	W30BL090
10	254	W30W100	W30Y100	W30B100	W30R100	W30BL100

## Low Strip Force Wire Wrapping Wire - Rolls

- \* Kynar insulated wire \* Silver plated copper wire conductor
- \* UL listed \* Standard spool sizes: 100, 500 & 1000 ft.
- \* Standard colors: blue, black, red, yellow & white
- \* Standard wire gauges: 26, 28 & 30
- \* Additional colors, wire gauges and larger roll sizes may be available



### 26 Awg (0.40mm) Low Strip Force Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.027" (0.69mm)	100ft.(30.4m)	WRS26W-C	WRS26Y-C	WRS26B-C	WRS26R-C	WRS26BL-C
	500ft.(152m)	WRS26W-D	WRS26Y-D	WRS26B-D	WRS26R-D	WRS26BL-D
	1000ft.(304m)	WRS26W-M	WRS26Y-M	WRS26B-M	WRS26R-M	WRS26BL-M

### 28 Awg (0.32mm) Low Strip Force Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.024" (0.60mm)	100ft.(30.4m)	WRS28W-C	WRS28Y-C	WRS28B-C	WRS28R-C	WRS28BL-C
	500ft.(152m)	WRS28W-D	WRS28Y-D	WRS28B-D	WRS28R-D	WRS28BL-D
	1000ft.(304m)	WRS28W-M	WRS28Y-M	WRS28B-M	WRS28R-M	WRS28BL-M

### 30 Awg (0.25mm) Low Strip Force Wire

Insulation DIA	Roll Size	White	Yellow	Blue	Red	Black
.0195" (0.50mm)	100ft.(30.4m)	WRS30W-C	WRS30Y-C	WRS30B-C	WRS30R-C	WRS30BL-C
	500ft.(152m)	WRS30W-D	WRS30Y-D	WRS30B-D	WRS30R-D	WRS30BL-D
	1000ft.(304m)	WRS30W-M	WRS30Y-M	WRS30B-M	WRS30R-M	WRS30BL-M

### Cut-Strip-Wrap (CSW) Bit and Sleeve Sets

Bit & Sleeve Part Number	Wire Size			Type Wrap		Terminal Diagonal				Terminal Hole				Min. Terminal Spacing		Wire Insulation Dia.			
	AWG	In.	mm	Reg	Mod	Max.		Min.		Diameter		Depth		In.		Max.		Min.	
Matched sets						In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
CSW26M36	26	.016	0.40		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.030	0.76	.026	0.66
CSW28M36	28	.012	0.32		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.025	0.63	.022	0.56
CSW30M36	30	.010	0.25		X	.035	0.89	.031	0.79	.036	0.91	.75	19.0	.100	2.54	.021	0.61	.019	0.48



**For use only with PNEUMATIC or ELECTRIC tools without back force.**

**Recommended for use with JDV's LOW STRIP FORCE Kynar® Wire.**

**For other wires, please send us a sample for evaluation.**

# WRAP ID TAGS

## Standard Dip Sockets ID Tags

### Increase Wiring Speed and Reduce Errors

Used to identify pin numbers on wire wrapping sockets. Consisting of a socket-sized plastic panel with numbered holes in the pin location, the ID tag is simply slipped onto the socket before wrapping.

You can also write on them for easy identification of location, IC Part number, function, etc.

These unique items greatly simplify both initial wire wrapping and subsequent troubleshooting or repair. A great help to technicians, and production facilities alike.

Part No.	Pins	Row Spacing	Qty/Pkg	Part No.	Pins	Row Spacing	Qty/Pkg
ID8	8	.3 •(7.5mm)	100	IDx8	8	.3 •(7.5mm)	10
ID14	14	.3 •(7.5mm)	100	IDx14	14	.3 •(7.5mm)	10
ID16	16	.3 •(7.5mm)	100	IDx16	16	.3 •(7.5mm)	10
ID18	18	.3 •(7.5mm)	50	IDx18	18	.3 •(7.5mm)	5
ID20	20	.3 •(7.5mm)	50	IDx20	20	.3 •(7.5mm)	5
ID22	22	.4 •(10mm)	50	IDx22	22	.4 •(10mm)	5
ID24-3	24	.3 •(7.5mm)	50	IDx24-3	24	.3 •(7.5mm)	5
ID24-4	24	.4 •(10mm)	50	IDx24-4	24	.4 •(10mm)	5
ID24	24	.6 •(15mm)	50	IDx24	24	.6 •(15mm)	5
ID28	28	.6 •(15mm)	25	IDx28	28	.6 •(15mm)	5
ID40	40	.6 •(15mm)	25	IDx40	40	.6 •(15mm)	5
ID96	96	.3 •(7.5mm)	25	IDx96	96	.3 •(7.5mm)	5



## PERFORATED DIP SOCKETS ID TAGS

Part No.	Dip Size	Qty/Pkg
IDP24	24pin	50
IDP28	28pin	25
IDP40	40pin	25

The "IDP" series contains holes not only at the DIP pin locations, but also everywhere else on a 0.1" x 0.1" (2.5mm x 2.5mm) grid. This allows them to be used not only with sockets but also with "universal" boards having non-dedicated rows or grids of wrap pins which can be grouped according to the needs of the user.



## CERAMIC ADJUSTMENT TOOL

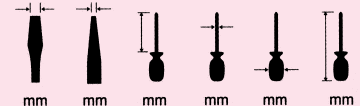
Designed for the precision adjustment of variable capacitors, resistors and other electronic components. Applicable in audio equipment such as tuners, amplifiers, TV, VCR, video cameras, radio related equipment, wireless communication and computers.

Tips are made from Zirconia Ceramic, which has many advantages such as durability, anti static, non magnetic, non inductive, heat resistant up to 700 Degrees Celsius, resistant to acid (except hydro-fluoric) and solder adhesion.

Individual bits are also available.



- \* Zirconia ceramic chip material for the latest requirement.
- Non-induction and non-magnetic -optimum in high frequency field.
- Ergonomic design for smooth operation
- Handle contains anti-electro static agent.

JDV P/N	MODEL NO.	SIZE							Color of handle cap	MIN. QTY. OUTER CTN.
C 9000G	125650	⊙ 0.9x30	0.9	0.4	30	1.8	10	120	Green	60
C 9000W	125651	⊙ 1.3x30	1.3	0.4	30	1.8	10	120	White	60
C 9000Y	125652	⊙ 1.8x30	1.8	0.4	30	1.8	10	120	Yellow	60
C 9000R	125653	⊙ 2.6x30	2.6	0.4	30	2.6	10	120	Red	60
C 9000BK	125654	⊙ 3.4x30	3.4	0.5	15	3.4	10	110	Black	60
C 9000B	125655	⊕ 0x30	⊕ No.0		30	2.6	10	120	Dark blue	60
C 9000P	125656	⊕ 1.7x30	⊕ No.1.7		30	2.6	10	120	Light purple	60



# Wire Wrapping Qualification Equipment

## Terminal Holding Fixture

Part No.	Description
QF601	Terminal holding fixture with manual clamping
QF602	Terminal holding fixture with air clamping



Qualification and inspection of wire wrapped connections, require the use of a terminal holding fixture. This fixture is available in two models, manual clamping (shown above) and air clamping. These fixtures will hold all standard terminals from .025" to 0.90" requiring only a simple adjustment.

## Pull Test Gauges

QT15 Pull Test Gauge Is Furnished With Two Replacement Tips:

Part No.	Description
QT15	Pull Test Gauge With Two Tips
QT15-025	For .025"-.032" Terminal Width
QT15-045	For .039"-.046" Terminal Width



The model QT15 pull test gauge accurately measures the force required to strip a wire off its terminal. Minimum strip force values are shown on the chart. It measures the force to an accuracy of 0.5% of full scale. It will retain the reading of the strip off force on the dial until released by the thumb slide switch. The tool is supplied in a sturdy protective case. Range:0-14 Kg (100gm per dial division) Tool Weight: 1 lb Tool Length: 9.5"

## Unwrap Test Tool

Part No.	Description
QT4008	Qualification Unwrap Tool



Use with Manual Unwrap Tool WG 100/R3394 or WG 200/R3394

## Test Wire

Part No.	Wire Size		"Shiner" Length of Stripped Wire	
	AWG	MM	Inches	MM
QW 22	22ga	0.65	1 7/16"	36.5mm
QW 24	24ga	0.50	1 7/16"	36.5mm
QW 26	26ga	0.40	1 13/16"	46.0mm
QW 28	28ga	0.32	1 1/8"	28.6mm
QW 30	30ga	0.25	7/8"	22.2mm

500 wires per package





# DIGITAL LIQUID DISPENSERS AND ACCESSORIES



Part No.	Voltage	Description
DLD1001	115	Basic Digital Dispenser
DLD1002	230	

Size: 11" x 6" x 2"



Part No.	Voltage	Description
DLD1101	115	Digital Dispenser with Independent Vacuum Pick Up Pen
DLD1102	230	

Size: 13" x 6" x 2"



Part No.	Voltage	Description
DLD1501	115	Digital Dispenser with Barrel Vacuum Gauge
DLD1502	230	

Size: 13" x 6" x 2"



## FEATURES – All models:

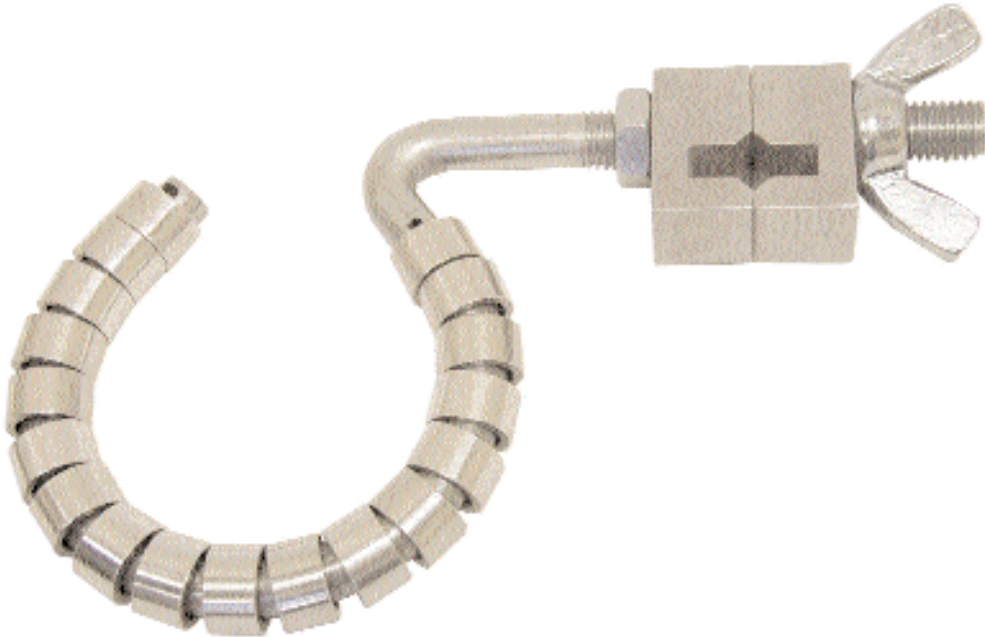
- Microprocessor time control
- Real-time digital display
- Unique teach function
- Programmable manual and automatic dispensing
- Adjustable barrel vacuum control (Pull-back/draw-back function)
- Digital time-set up with LED display
- Timing programmable function from 0.01 to 99.99 seconds
- Adjustable fluid flow control 0-100 PSI (0-15 PSI optional)
- User friendly
- CE Approved

## STANDARD ACCESSORIES KIT Includes:

- (1) Operating manual
- (1) Input air hose and fitting
- (1) Power cord set
- (1) Foot pedal
- (1) Barrel stand
- (1) Dispensing tips and tip cap set
- (1) Set of 3 cc barrel, piston & barrel cap
- (1) Set of 10 cc barrel, piston & barrel cap
- (1) Set of 30 cc barrel, piston & barrel cap
- (1) Set of 3, 10 & 30 barrel adapters
- (1) In line filter



## Cable Guiding Equipment



The **R4397** is designed to be a guide when pulling cables into place.

Works seamlessly with cable grids and runways.

The aluminum clamp block is adjustable for either a 5/8" x 1 fi" or 5/8" x 2" stringer.

The hook is constructed of steel with aluminum bushings.

An example of companies that use this tool are AT&T and Western Electric.

### Cable Guide

Part No.	Description
R4397	Cable Guide



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