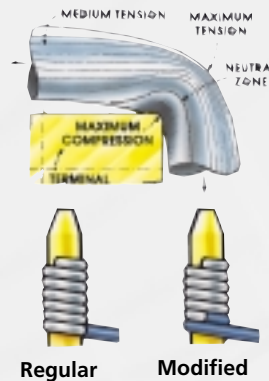


# WIRE WRAPPING OVERVIEW

Wire Wrapping is a method of making a wire connection by coiling the bare wire around the sharp corners of a terminal under mechanical tension. The technology was developed as an alternative to soldering, which presents various safety and reliability problems in many applications. A principal advantage of wire wrapping is that it provides a high-reliability connection that is also easily removed to correct or modify a wiring layout. Wire wrapping subjects the wire to tremendous tension and compression forces, causing the oxide layer on both wire and terminal to be crushed or sheared, resulting in a clean, oxide-free metal-to-metal contact. A standard wrap is generally used for 24 AWG and larger diameter wires; a modified wrap is typically used for 24 AWG and smaller wires, and is used almost exclusively for 28 to 30 AWG wires. In either case, the wrap style affects only the connection's mechanical stability; both styles provide suitable electrical connections.

## METAL-TO-METAL CONTACT

By bending the wire around the sharp corner of the terminal, the oxide layer on both wire and terminal is crushed or sheared, and a clean, oxide-free metal-to-metal contact is obtained.



## 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

## TYPES OF WRAP

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.

## HOW TO MAKE WIRE WRAPPED CONNECTIONS



## SOME HINTS ON MAKING WRAPPED CONNECTIONS



**OVERWRAP**  
Do not press too hard. Let the OK tools do the work. Excessive pressure can lead to overwrapping. Backforce "BF" to prevent overwrapping is available on most power tools and is recommended for use with 26 through 30 AWG wire.

**INSUFFICIENT TURNS**  
It's easy to feed wire into the slot in the OK bit correctly. Be sure the stripped end of the wire is "pushed-in" all the way.



**OPEN WRAP & SPIRAL WRAP**  
Just keep the OK tool on the terminal until the wrap is complete. Early removal can result in spiral and open wraps.

**PIGTAIL**  
Wire wrapping is a precision technique and the wrong bit and sleeve just cannot do the job. Improper selection can cause problems ranging from "Pigtails" to loose wraps.

## TERMINAL DIAGONAL CHART

In. mm	.010 0.25	.015 0.38	.020 0.51	.025 0.64	.030 0.76	.035 0.89	.040 1.02	.045 1.14	.050 1.27	.055 1.40	.060 1.52	.065 1.65	.070 1.78	.075 1.91	.080 2.03	.085 2.16	.090 2.29	.095 2.41	.100 2.54
.010 0.25	.014 0.36	.018 0.46	.022 0.56	.027 0.69	.032 0.81	.036 0.91	.041 1.04	.046 1.17	.051 1.30	.056 1.42	.061 1.55	.066 1.68	.071 1.80	.076 1.93	.081 2.06	.086 2.18	.091 2.31	.096 2.44	.101 2.57
.015 0.38	.018 0.46	.021 0.53	.025 0.64	.029 0.74	.033 0.84	.038 0.97	.043 1.09	.047 1.19	.052 1.32	.057 1.45	.062 1.58	.067 1.70	.072 1.83	.077 1.96	.082 2.08	.087 2.21	.092 2.34	.097 2.46	.102 2.59
.020 0.51	.022 0.56	.025 0.64	.028 0.71	.032 0.81	.036 0.91	.040 1.02	.045 1.14	.049 1.25	.053 1.35	.058 1.47	.063 1.60	.068 1.73	.073 1.85	.078 1.98	.083 2.11	.088 2.24	.093 2.36	.098 2.49	.103 2.62
.025 0.64	.027 0.69	.029 0.74	.032 0.81	.035 0.89	.039 0.99	.043 1.09	.047 1.19	.050 1.27	.056 1.42	.060 1.52	.065 1.65	.069 1.75	.074 1.88	.079 2.01	.084 2.13	.089 2.26	.094 2.39	.099 2.52	.104 2.64
.030 0.76	.032 0.81	.033 0.84	.036 0.91	.039 0.99	.042 1.07	.046 1.17	.050 1.27	.054 1.37	.058 1.47	.062 1.58	.067 1.70	.071 1.80	.076 1.93	.080 2.03	.085 2.16	.090 2.29	.095 2.41	.100 2.54	.105 2.67
.035 0.89	.036 0.91	.038 0.97	.040 1.02	.043 1.09	.046 1.17	.049 1.25	.052 1.32	.056 1.42	.060 1.52	.064 1.63	.069 1.75	.073 1.85	.078 1.98	.082 2.08	.087 2.21	.091 2.31	.096 2.44	.101 2.57	.106 2.69
.040 1.02	.041 1.04	.043 1.09	.045 1.14	.047 1.19	.050 1.27	.052 1.32	.056 1.42	.060 1.52	.064 1.63	.068 1.73	.072 1.83	.076 1.93	.080 2.03	.084 2.13	.089 2.26	.092 2.34	.097 2.46	.102 2.59	.107 2.72
.045 1.14	.046 1.17	.047 1.19	.049 1.25	.050 1.27	.054 1.37	.056 1.42	.060 1.52	.063 1.60	.067 1.70	.071 1.80	.074 1.88	.078 1.98	.083 2.11	.087 2.21	.091 2.31	.096 2.44	.101 2.57	.105 2.67	.109 2.77
.050 1.27	.051 1.30	.052 1.32	.053 1.35	.056 1.42	.058 1.47	.060 1.52	.064 1.63	.067 1.70	.071 1.80	.074 1.88	.078 1.98	.082 2.08	.086 2.18	.090 2.29	.094 2.39	.098 2.49	.103 2.62	.107 2.72	.111 2.82

Example: If "E"=.020". "F"=.060". The terminal diagonal is .063" as shown on chart.

# PTX SERIES

## ERGONOMIC WIRE WRAPPING TOOLS



The PTX Series Wire Wrapping Tools from OK Industries bring revolutionary new benefits to installers, telecom technicians and other users. With worker safety in mind, we consulted a certified ergonomist and created an ergonomic tool, which includes a lightweight, well-balanced construction, dual-finger short-throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry-leading design from a comfort and safety standpoint. Ask for the PTX Series Wire Wrapping Tools from OK Industries — and arm your workers with the tools that offer efficiency and worker safety in your interconnect activity.

### KEY FEATURES

- Ergonomic Design — Minimises Repetitive Stress
- Rugged Construction for Field Usage
- Battery and Electric Powered Versions Available
- Wraps and Unwraps 20 to 30 AWG Wire
- Rated Maximum Usage: 2,500 cycles/day
- For Bits & Sleeves: see Page 11

Part No.	Description	Weight	Voltage	RPM
PTX	Battery Wrap/Unwrap Tool (Battery not included)	1.2 lb.	3.6V*	3700
PTX-1	Electric Wrap/Unwrap Tool - 115V	0.86 lb.	115V	3700
PTX-1BF	Electric Wrap/Unwrap Tool w/Backforce - 115V	0.86 lb.	115V	3700
PTX-2	Electric Wrap/Unwrap Tool - 230V	1.0 lb.	230V	4200
PTX-2BF	Electric Wrap/Unwrap Tool w/Backforce - 230V	1.0 lb.	230V	4200
PTX-KIT1	115V battery tool kit (tool, charger, (2) batteries)			
PTX-KIT2	230V battery tool kit (tool, charger, (2) batteries)			

\* Powered by long-life NiMH battery

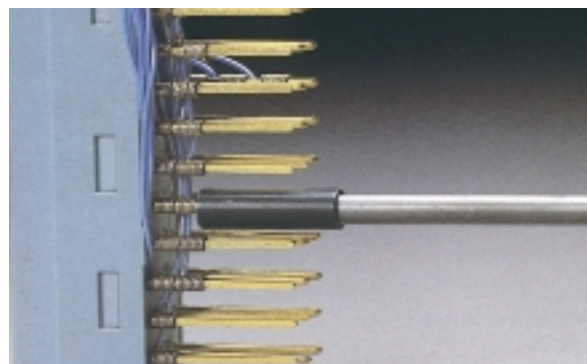
### ACCESSORIES

- **PTX-B** PTX Battery, 3.6V
- **PTX-BC1** 115V Charger for PTX-B battery
- **PTX-BC2** 230V Charger for PTX-B battery

PTX-BC1



PTX-B



# MANUAL WIRE WRAPPING TOOLS & KITS

## MANUAL WIRE WRAPPING TOOLS



**G100/R3278INS**  
(Shown with Bit/Sleeve)

**G200/R3278 Lexan™**  
**G100/R3278 Aluminum**

The G100/R3278 and G200/R3278 tools are designed with a chuck nose piece to make use of the full line of bits and sleeves made for power tools. The G100/R3278INS is coated with an insulative material, providing 1000V of dielectric strength across most of the housing, to help ensure worker and system safety. These tools accommodate wire sizes from 22 AWG (0.65mm) thru 32 AWG (0.20mm).

- G200/R3278 : Lexan™
- G100/R3278 : Aluminum
- G100/R3278INS : Aluminum (insulated)
- For Bits & Sleeves : see page 11

## MANUAL WIRE UNWRAPPING TOOL

The combination of the G100/R3394 unwrap tool and the SU unwrap bits gives you the best tool for high speed wire unwrapping. High production, long life, low maintenance. Use Unwrap Set SU2026 for wire AWG 20 thru 26 (0.80 thru 0.40mm) and Set SU2832 for wire AWG 26 thru 32 (0.40 thru 0.20mm).



**G100/R3394**

G100/R3394 Bits & Sleeves:

- G100/R3394 : Manual Wire Unwrapping Tool

Unwrap Bit Part No.	Unwrap Sleeve Part No.	Bit and Sleeve Set No.	Wire Size		Terminal Hole Diameter	
			AWG	mm	Inches	mm
2026UB	2026	SU2026	22-26	0.65-0.40	.070	1.77
2832UB	2832	SU2832	26-32	0.40-0.20	.056	0.50

## TELECOM WIRE WRAP KIT



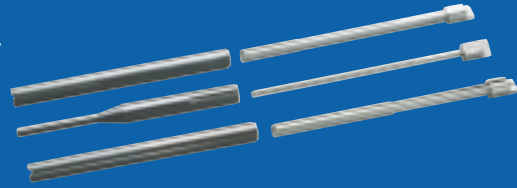
**WWK-1**

This is a complete kit for technicians working at a Main Distributing Frame. The G200/R3278 Manual Gun produces wire wrapped connections merely by squeezing the trigger, and works with any bit and sleeve. The versatile HW-UW-224 Hand Wrap-Unwrap Tool (22-24 AWG) does the work of two tools in one - wrapping and unwrapping - just by changing the cap from one end to the other. The ST-100 22-24 AWG wire Cut-and-Strip Tool offers easy, clean stripping of up to four wires with 15/16" - 19/16" adjustable strip off length. This kit comes complete with KB224 22-24 AWG bit, P2224 22-24 AWG sleeve and H-1000 cordura tool pouch.

- WWK-1 : Telecom Wire Wrap Kit

# WIRE WRAPPING BITS & SLEEVES

Fully compatible with any make or model wire wrapping tool, except G100 and G200 manual tools, which are obsolete and require special bits and sleeves.



## BITS AND SLEEVES CHART (AWG) INCHES

Wire Gauge (AWG)	Regular	Modified	Bit Part No.	Sleeve Part No.	Maximum Insulation Diameter Inches	Minimum Terminal Diagonal Inches	Maximum Terminal Diagonal Inches	Terminal Hole Depth Inches	Effective Radius Inches	Terminal Hole Diameter Inches
18	●		KB18	P194	-	.060	.073	1.00	.150	.075
20		●	WB20M	P194LN	.059	.042	.073	1.000	.150	.075
20-22	●		KB2075	P2224	-	.042	.073	1.000	.123	.075
22	●		KB22LT	P2224	-	.061	.085	1.000	.125	.086
22	●		KB22	P2224	-	.054	.073	.750	.117	.075
22		●	WB2275M	P2224	.052	.049	.074	1.000	.132	.075
22-24	●		KB224LH	P2224	-	.061	.085	1.000	.117	.086
22-24	●		KB224-1	P2224	-	.054	.073	1.000	.111	.075
22-24	●		KB224	P2224	-	.054	.073	.807	.111	.075
22-24		●	WB224M	P2224	.050	.049	.074	1.250	.121	.075
24	●		*KB2444	P3032LN	-	.024	.043	1.000	.083	.044
24		●	WB24DH	P2224	.046	.054	.073	1.750	.117	.075
24	●		KB24	P2426	-	.055	.074	.750	.100	.075
24		●	*WB245M	P3032LN	.044	.024	.043	.750	.098	.044
24		●	WB24DHM	P2224	.050	.049	.068	1.125	.118	.069
24-26		●	WB2426M	P2224	.046	.054	.073	.750	.118	.075
24-26	●		KB2466	OK8519	-	.054	.065	1.000	.098	.066
26	●		*KB2639	P26LN	-	.023	.038	.750	.068	.040
26	●		KB26	P2426	-	.058	.073	1.000	.100	.075
26		●	*WB265M	P26LN	.031	.023	.038	.750	.075	.040
26		●	WB26M	P2224	.046	.054	.073	1.000	.118	.075
26		●	*WB2644M	P3032LN	.046	.024	.043	.750	.098	.044
26		●	WB2669M	P2426	.041	.053	.068	1.000	.109	.069
28		●	WB2870M	P2426	.034	.053	.068	1.000	.103	.070
28-29		●	*WB2829M	P3032L	.036	.033	.038	.750	.091	.040
30		●	*SB30MSH-B	P3032	.027	.031	.035	.750	.064	.036
30		●	*SB30MMK	P3032	.023	.031	.035	.750	.064	.036
30-32		●	*WB3032M	P3032	.027	.034	.038	.750	.064	.040

\*These tools are recommended for .025" square terminals on .100 centres

## BITS AND SLEEVES CHART MILLIMETRES

Wire Gauge mm	Regular	Modified	Bit Part No.	Sleeve Part No.	Maximum Insulation Diameter mm	Minimum Terminal Diagonal mm	Maximum Terminal Diagonal mm	Terminal Hole Depth mm	Effective Radius mm	Terminal Hole Diameter mm
1.00	●		KB18	P194	-	1.52	1.85	25.40	3.81	1.90
0.80		●	WB20M	P194LN	1.50	1.07	1.85	25.40	3.81	1.90
0.65-0.80	●		KB2075	P2224	-	1.07	1.85	25.40	3.12	1.90
0.65	●		KB22LT	P2224	-	1.54	2.15	25.40	3.17	2.18
0.65	●		KB22	P2224	-	1.37	1.85	19.05	2.97	1.90
0.65		●	WB2275M	P2224	1.32	1.24	1.87	25.40	3.35	1.90
0.50-0.65	●		KB224LH	P2224	-	1.54	2.15	25.40	2.97	2.18
0.50-0.65	●		KB224-1	P2224	-	1.37	1.85	25.40	2.82	1.90
0.50-0.65	●		KB224	P2224	-	1.37	1.85	20.50	2.82	1.90
0.50-0.65		●	WB224M	P2224	1.27	1.24	1.87	31.75	3.07	1.90
0.50	●		*KB2444	P3032LN	-	0.60	1.09	25.40	2.10	1.11
0.50		●	WB24DH	P2224	1.17	1.37	1.85	44.50	2.97	1.90
0.50	●		KB24	P2426	-	1.39	1.87	19.05	2.54	1.90
0.50		●	*WB245M	P3032LN	1.11	0.60	1.09	19.05	2.48	1.11
0.50		●	WB24DHM	P2224	1.27	1.24	1.72	28.50	2.99	1.75
0.40-0.50		●	WB2426M	P2224	1.17	1.37	1.85	19.05	2.99	1.90
0.40-0.50	●		KB2466	OK8519	-	1.37	1.65	25.40	2.48	1.67
0.40	●		*KB2639	P26LN	-	0.58	0.96	19.05	1.72	1.02
0.40	●		KB26	P2426	-	1.47	1.85	25.40	2.54	1.90
0.40		●	*WB265M	P26LN	0.79	0.58	0.96	19.05	1.90	1.02
0.40		●	WB26M	P2224	1.17	1.37	1.85	25.40	2.99	1.90
0.40		●	*WB2644M	P3032LN	1.17	0.60	1.09	19.05	2.48	1.11
0.40		●	WB2669M	P2426	1.04	1.72	2.77	25.40	2.77	1.75
0.32		●	*WB28SHM	P3032	0.76	0.79	0.89	19.05	1.67	0.91
0.29-0.32		●	*WB2829M	P3032L	0.91	0.83	0.96	19.05	2.31	1.02
0.25		●	*SB30MSH-B	P3032	0.69	0.79	0.89	19.05	1.62	0.91
0.25		●	*SB30MMK	P3032	0.58	0.79	0.89	19.05	1.62	0.91
0.20-0.25		●	*WB3032M	P3032	0.69	0.86	0.96	19.05	1.62	1.02

\* These tools are recommended for 0.63mm terminals on 2.54mm centres



# SPECIALISED BITS & SLEEVES

## POWER UNWRAPPING BITS & SLEEVES

For PTX Series battery or electric wrap/unwrap tool.

Unwrap Bit Part No.	Unwrap Sleeve Part No.	Bit and Sleeve Set	Wire Size		Terminal Hole Dia.	
			AWG	mm	In.	mm
2026UB	P2426	KB24-5	20-26	0.80-0.40	.070	1.77

## 2" (5CM) LONGER THAN STANDARD BITS & SLEEVES



These bits and sleeves are designed for wire wrapping in areas requiring deep penetration. Their 5" (127mm) length ensures "true" connections in hard-to-get-at locations.

Bit Part No.	Sleeve Part No.	Wire Size		Regular	Modified	Maximum Insulation Diameter		Minimum Terminal Diagonal		Maximum Terminal Diagonal		Terminal Hole Depth		Effective Radius		Terminal Hole Diameter	
		AWG	mm			In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
KB22-5	P2224-5	22	0.65	●		-	-	.054	1.37	.073	1.85	.750	19.05	.117	2.97	.075	1.90
KB24-5	P2426-5	24	0.50	●		-	-	.055	1.39	.073	1.85	.750	19.05	.100	2.54	.075	1.90
KB26-5	P2426-5	26	0.40	●		-	-	.058	1.47	.073	1.85	.750	19.05	.100	2.54	.075	1.90

## LONG EXTENSION ATTACHMENTS

127mm extension

Precision devices which attach easily to your wire wrapping tool for applications requiring extra "reach". Simply install the extension into the tool, then install the bit and sleeve into the extension. Compatible with Electric and Manual wire wrapping tools. Compatible with all bits and sleeves made for Power Wire Wrapping.

## BITS AND INSULATED SLEEVES

The insulated sleeves are covered with a material which provides 1000V dielectric strength which helps to prevent shorting between pins and enhances worker safety.

P2426-5INS



Bit Part No.	Sleeve Part No.	Wire Size		Regular	Modified	Maximum Insulation Diameter		Minimum Terminal Diagonal		Maximum Terminal Diagonal		Terminal Hole Depth		Effective Radius		Terminal Hole Diameter	
		AWG	mm			In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
KB22	P2224INS	22	0.65	●		-	-	.054	1.37	.073	1.85	.750	19.05	.117	2.97	.075	1.90
KB224	P2224INS	22-24	0.50-0.65	●		-	-	.054	1.37	.073	1.85	.807	20.50	.111	2.82	.075	1.90
KB24	P2426INS	26	0.50	●		-	-	.055	1.39	.074	1.87	.750	19.05	.100	2.54	.075	1.90
KB26	P2426INS	26	0.40	●		-	-	.058	1.47	.073	1.85	1.0	25.40	.100	2.54	.075	1.90

## EXTENDED LENGTH (5") BITS AND INSULATED SLEEVES

Bit Part No.	Sleeve Part No.	Wire Size		Regular	Modified	Maximum Insulation Diameter		Minimum Terminal Diagonal		Maximum Terminal Diagonal		Terminal Hole Depth		Effective Radius		Terminal Hole Diameter	
		AWG	mm			In.	mm	In.	mm	In.	mm	In.	mm	In.	mm		
KB22-5	P2224-5INS	22	0.65	●		-	-	.054	1.37	.073	1.85	.750	19.05	.117	2.97	.075	1.90
KB24-5	P2426-5INS	24	0.50	●		-	-	.055	1.39	.073	1.85	.750	19.05	.100	2.54	.075	1.90
KB26-5	P2426-5INS	26	0.40	●		-	-	.058	1.47	.073	1.85	.750	19.05	.100	2.54	.075	1.90

# DFB224 DUAL FUNCTION WRAP/UNWRAP BIT & SLEEVE SET



DFB224 DUAL FUNCTION WRAP/UNWRAP BIT & SLEEVE SET

## OK INDUSTRIES INTRODUCES THE DFB224 DUAL FUNCTION BIT

This innovative product represents a truly revolutionary approach to wire wrapping, by combining both the wrap and the unwrap functions into one bit/sleeve set. The bit is precision machined for high quality wrapping in the clockwise direction, but also includes the removal mechanism that is used to unwrap when operated counterclockwise. The user can quickly and easily switch back and forth between wrap and unwrap mode by retracting or extending the retractable sleeve, and flipping the switch on a wrap/unwrap power tool (i.e., a power wire wrapping tool with reversible motor). This product, which can wrap or unwrap 22 and 24 AWG wire, enables the user to maximize operating efficiency while eliminating the need to purchase and carry extra tools or bits for unwrapping. Also, to prevent pin-to-pin shorting, the retractable sleeve is coated with a durable 1000V dielectric material.

Part #	Description	Wire Size		Min. Terminal Diagonal		Max. Terminal Diagonal		Terminal Hole Depth		Terminal Hole Diameter		Effective Radius	
		mm	AWG	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.
DFB224	Dual Function Wrap/Unwrap Bit/Sleeve Set, 22/24 AWG	.50/.65	22/24	1.37	.054	1.85	.073	25.04	1.00	1.90	.075	2.82	.111
DFB2426	Dual Wrap/Unwrap bit & sleeve set, 24-26 AWG	.40/.50	24/26	1.37	.054	1.85	.073	25.04	1.00	1.67	.066	2.48	.098

KB-DF224 (wrap/unwrap bit)  
P-DF2224 (wrap/unwrap sleeve assembly)

KB-DF2426 (replacement bit for DFB2426)  
P-DF2426 (replacement Sleeve Assy, DFB2426)

## HOW TO USE THE DFB224

The Wrap/Unwrap bit is shipped with the sleeve set in the wrap position. To change to the unwrap simply pull the sleeve out approximately 1/4" (the sleeve is spring loaded and you should feel some tension while pulling forward), rotate the sleeve in either direction 180° and release. The sleeve should now be seated approximately 1/4" lower than in the wrap position. This will expose the unwrap feature on the bit.

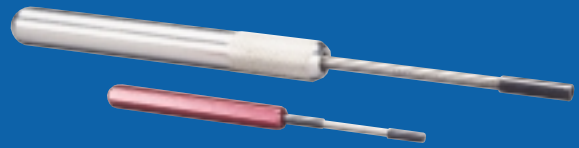
To change back to the wrap position pull the sleeve out approximately 1/2" and rotate the sleeve in either direction 180° and release. The spout should be in the 12:00 position and the sleeve should be locked in position.

Note: If you cannot rotate the sleeve, you need to pull the sleeve out further before trying to rotate the sleeve.

# HAND WRAPPING AND UNWRAPPING TOOLS

## HAND WRAPPING TOOLS

These Hand Wrapping Tools are carefully designed to produce perfect wire wrapped connections. Precision, long-lasting tools for use where occasional wraps are required or where power wire-wrapping tools are not practical. Compact and convenient.



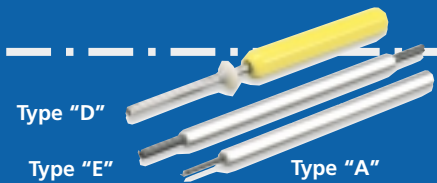
Part No.	Reg.	Mod.	Type	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
				AWG	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
HW-224	●		A	22-24	0.65-0.50	-	-	.075	1.90	.807	20.50	.218	5.53
HW-224LH	●		A	22-24	0.65-0.50	-	-	.086	2.18	1.000	25.40	.218	5.53
HW-24DHM		●	A	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53
HW-2426	●		A	24-26	0.50-0.40	-	-	.075	1.90	.750	19.05	.218	5.53
HW-26	●		A	26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53
*HW-26SM		●	A	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17
*HW-30		●	B	30	0.25	.027	0.69	.036	0.91	.750	19.05	.125	3.17

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

Note: HW-22 and HW-24 have been replaced by HW-224.

## HAND UNWRAPPING TOOLS

These tools are used to remove wire connections using 18 thru 32 gauge wire.



Part No.	Type	Wire Size		Type of Unwrap	Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
		AWG	mm		Inches	mm	Inches	mm	Inches	mm
UW1	A	20-26	0.80-0.40	Left Hand	.070	1.77	1.000	25.40	.156	3.96
UW2	E	20-26	0.80-0.40	Left and Right Hand	.070	1.77	1.000	25.40	.156	3.96
UW4	D	20-26	0.80-0.40	Left Hand	.070	1.77	2.360	60.00	.187	4.74
UW5	D	20-26	0.80-0.40	Left and Right Hand	.070	1.77	2.360	60.00	.187	4.74
UWD93-93	E	24-32	0.50-0.20	Left and Right Hand	.038	0.96	1.000	25.40	.093	2.36
UW2832C	D	28-32	0.32-0.20	Left and Right Hand	.038	0.96	.750	19.05	.156	3.96

## HAND WRAPPING AND UNWRAPPING TOOLS

To switch from wire wrapping to unwrapping takes only seconds - just a quick change of the cap from one end to the other.



WRAPPING SIDE

UNWRAPPING SIDE

Part Number	Reg	Mod	Wire Size		Max. Insulation Diameter		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter		Wire Size		Terminal Hole Diameter		Terminal Hole Depth		Outside Diameter	
			AWG	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	AWG	mm	In.	mm	In.	mm
HW-UW-224	●		22-24	0.50 0.65	-	-	.075	1.90	.807	20.50	.218	5.53	20-26	0.80 0.40	.070	1.77	1.000	25.40	.156	3.96
HW-UW-224-1	●		22-24	0.50 0.65	-	-	.075	1.90	1.000	25.40	.218	5.53	20-26	0.80 0.40	.070	1.77	1.000	25.40	.156	3.96
HW-UW-224LH	●		22-24	0.50 0.65	-	-	.086	2.18	1.000	25.40	.218	5.53	20-26	0.80 0.40	.086	2.18	.750	19.05	.156	3.96
HW-UW-24DHM		●	24	0.50	.050	1.27	.069	1.75	1.125	28.50	.218	5.53	20-26	0.80 0.40	.070	1.77	1.000	25.40	.156	3.96
*HW-UW-24SM		●	24	0.50	.044	1.11	.044	1.11	.750	19.05	.156	3.96	20-26	0.80 0.40	.038	0.96	1.000	25.40	.093	2.36
HW-UW-2426	●		24-26	0.40 0.50	-	-	.075	1.90	.750	19.05	.218	5.53	20-26	0.80 0.40	.070	1.77	1.000	25.40	.156	3.96
HW-UW-26	●		26	0.40	-	-	.075	1.90	1.000	25.40	.218	5.53	20-26	0.80 0.40	.070	1.77	1.000	25.40	.156	3.96
*HW-UW-26SM		●	26	0.40	.031	0.79	.040	1.02	.750	19.05	.125	3.17	24-32	0.50 0.20	.038	0.96	1.000	25.40	.093	2.36

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

Note: HW-UW-22 and HW-UW-24 have been replaced by HW-UW-224.



# Kynar and Tefzel Wire Tables

## Kynar

Insulation material: Polyvinilidene Fluoride (PVF2).

Conductor: Silver Plated Copper conductor.

This low cost wire is recommended for pre-stripped wire applications.

### 24AWG KYNAR WIRE (0.50mm) insulation diameter 0.030" (0.76mm)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	ORANGE
100M	100-24R	100-24W	100-24Y	100-24B	100-24BK	100-24G	100-24O
500M	500-24R	500-24W	500-24Y	500-24B	500-24BK	500-24G	500-24O
1000M	1000-24R	1000-24W	1000-24Y	1000-24B	1000-24BK	1000-24G	1000-24O

### 26AWG KYNAR WIRE (0.40MM) insulation diameter 0.27" (0.69mm)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	ORANGE	BROWN	GREY	VIOLET	NATURAL
100M	100-26R	100-26W	100-26Y	100-26B	100-26BK	100-26G	100-26O	100-26BR	100-26GR	100-26V	100-26N
500M	500-26R	500-26W	500-26Y	500-26B	500-26BK	500-26G	500-26O	500-26BR	500-26GR	500-26V	500-26N
1000M	1000-26R	1000-26W	1000-26Y	1000-26B	1000-26BK	1000-26G	1000-26O	1000-26BR	1000-26GR	1000-26V	1000-26N

### 28AWG KYNAR WIRE(0.32mm) insulation diameter 0.024" (0.60mm)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	NATURAL
100M	100-28R	100-28W	100-28Y	100-28B	100-28BK	100-28G	100-28N
500M	500-28R	500-28W	500-28Y	500-28B	500-28BK	500-28G	500-28N
1000M	1000-28R	1000-28W	1000-28Y	1000-28B	1000-28BK	1000-28G	1000-28N

### 30AWG KYNAR WIRE (0.25mm) insulation diameter 0.195" (0.50MM)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	ORANGE	BROWN	GREY	VIOLET	NATURAL
100M	100-30R	100-30W	100-30Y	100-30B	100-30BK	100-30G	100-30O	100-30BR	100-30GR	100-30V	100-30N
500M	500-30R	500-30W	500-30Y	500-30B	500-30BK	500-30G	500-30O	500-30BR	500-30GR	500-30V	500-30N
1000M	1000-30R	1000-30W	1000-30Y	1000-30B	1000-30BK	1000-30G	1000-30O	1000-30BR	1000-30GR	1000-30V	1000-30N

## Tefzel

Insulation material: ETFE extruded and lightly fixed.

Conductor: Tin Plated Copper conductor.

Due to this wire's low strip force it is recommended for automatic "cut-strip-wrap" (CSW) tools for more consistent results.

### 24AWG TEFZEL WIRE (0.50mm) insulation diameter 0.030" (0.76mm)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	BROWN	GREY
100M	100-24TR	100-24TW	100-24TY	100-24TB	100-24TBK	100-24TG	100-24TBR	100-24TGR
500M	500-24TR	500-24TW	500-24TY	500-24TB	500-24TBK	500-24TG	500-24TBR	500-24TGR
1000M	1000-24TR	1000-24TW	1000-24TY	1000-24TB	1000-24TBK	1000-24TG	1000-24TBR	1000-24TGR

### 26AWG TEFZEL (0.40MM) insulation diameter 0.27" (0.69mm)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	ORANGE	BROWN	GREY	VIOLET
100M	100-26TR	100-26TW	100-26TY	100-26TB	100-26TBK	100-26TG	100-26TO	100-26TBR	100-26TGR	100-26TV
500M	500-26TR	500-26TW	500-26TY	500-26TB	500-26TBK	500-26TG	500-26TO	500-26TBR	500-26TGR	500-26TV
1000M	1000-26TR	1000-26TW	1000-26TY	1000-26TB	1000-26TBK	1000-26TG	1000-26TO	1000-26TBR	1000-26TGR	1000-26TV

### 30AWG TEFZEL (0.25mm) insulation diameter 0.195" (0.50MM)

ROLL SIZE	RED	WHITE	YELLOW	BLUE	BLACK	GREEN	ORANGE	BROWN	GREY	VIOLET
100M	100-30TR	100-30TW	100-30TY	100-30TB	100-30TBK	100-30TG	100-30TO	100-30TBR	100-30TGR	100-30TV
500M	500-30TR	500-30TW	500-30TY	500-30TB	500-30TBK	500-30TG	500-30TO	500-30TBR	500-30TGR	500-30TV
1000M	1000-30TR	1000-30TW	1000-30TY	1000-30TB	1000-30TBK	1000-30TG	1000-30TO	1000-30TBR	1000-30TGR	1000-30TV

Full specifications for both wires may be obtained from OK International Ltd.

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