

## MAINTENANCE PROCEDURE

## PROCESO DE MANTENIMIENTO

All air tools require an air supply that is properly lubricated, regulated and filtered. Then tool will give the operator long, trouble free life when the following procedures are observed:

*Todas las herramientas requieren de aire que esta apropiadamente lubricado, filtrado y regulado en cuanto a su presión. Así la herramienta dará al usuario una larga vida de uso sin problemas siguiendo los procedimientos siguientes:*

1. The WG300 and WG400 are designed to operate at 90 to 100 psi (6.0-7.0 bar) input air pressure. A regulator should be installed in the airline to insure proper input air pressure.  
*1. Las pistolas WG300 y WG400 están diseñadas para operar entre 90 a 100 psi (6.0-7.0 bar) de presión de aire.*
2. A filter should also be installed in the airline to remove dirt and dust particles that are generally always present in unfiltered air system.  
*2. Un filtro es indispensable en la línea para detener partículas que puedan entrar a los mecanismos internos de la herramienta. Estas partículas están presentes en sistemas sin filtros.*
3. The tool air supply should be moisture free.  
*3. El aire proporcionado a la herramienta deberá estar libre de agua y humedad.*
4. The tool should be periodically lubricated dependent on the usage. If there is no automatic lubricating device installed in the air line, the operator should pour approximately one (1) teaspoon of high grade machine or spindle oil into the intake valve of the tool. If the tools is used every day, this procedure should be done twice a week.  
*4. La herramienta tendrá que ser lubricada periódicamente dependiendo de su uso. Si no existe un sistema que lubrique automáticamente en la línea de aire, el operador deberá poner dentro de la pistola una cucharada de aceite para altas revoluciones. Si la herramienta es utilizada todos los días, este proceso se deberá hacer dos veces por semana.*

JDV Products Inc. recommends the WAC100 Air Regulating System be installed in the air supply line.

The WAC100 is a precision oiler, filter and pressure regulating system in one compact unit. When installed in the air line, it will insure that item 1, 2, and 3 above are in place and protecting the tool.

*JDV recomienda el WAC100 Sistema de regulación de Aire en cada línea de aire. El WAC100 es un lubricador de precisión, filtro y sistema regulador de presión en una unidad compacta. Al instalarse en la línea de aire asegurara que los puntos 1, 2 y 3 sean cubiertos y protegerá debidamente a su herramienta.*

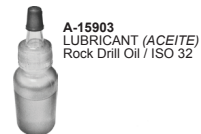
### WARRANTY WARNING:

Warranty VOID if A) tool's taken apart, B) endcap is tampered with, C) if repairs are not done by a JDV Authorized Repair Facility, D) tool must be used with proper air filter/regulator installed within 6 feet from tool, E) proper type oil/lubricant must be used (comes with tool, A-15903) and F) air lines must be dry or have dryer unit installed. Contact JDV for closest Authorized Repair Facility.

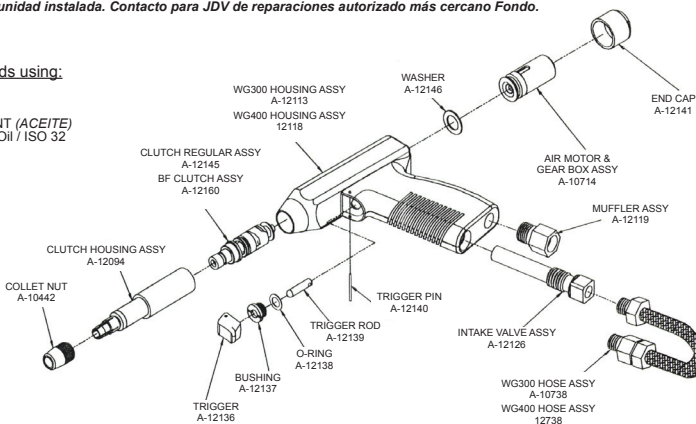
### GARANTÍA ATENCIÓN:

La garantía queda anulada si: A) herramientas de desmontar, B) tapón es alterado, C) si las reparaciones no son hechas por un JDV de reparaciones autorizado de Fondo, D) la herramienta se debe utilizar con el filtro de aire / regulador instalado dentro de los 6 pies de la herramienta, E) El aceite de tipo apropiado / lubricante debe ser utilizado (viene con la herramienta, A-15903) y F) las líneas de aire debe estar seco o secador de unidad instalada. Contacto para JDV de reparaciones autorizado más cercano Fondo.

### JDV Recommends using:



**A-15903**  
LUBRICANT (ACEITE)  
Rock Drill Oil / ISO 32



A-15870  
Rev 04/26/10

# PNEUMATIC WRAPPING TOOLS

## HERRAMIENTAS NEUMATICAS PARA ENROLLADO DE ALAMBRE



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# QUICK START GUIDE

## Insertion of the Bit and Sleeve Into the Wire Wrapping Tool

### GUIA BASICA DE INICIO

#### Inserción de la Punta y la Manga en la Pistola Manual

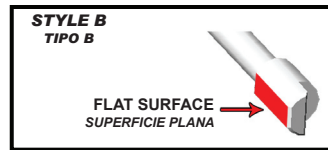
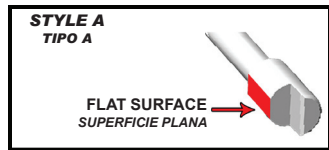


**WARRANTY WARNING:**

Warranty VOID if a) tool's taken apart, b) endcap is tampered with, c) if repairs are not done by a JDV Authorized Repair Facility, d) tool must be used with proper air filter/regulator installed within 6 feet from tool, e) proper type oil/lubricant must be used (comes with tool, A-15903), f) air lines must be dry or have dryer unit installed and g) the air must be free of moisture and dirt. Contact JDV for closest Authorized Repair Facility.

1. Familiarize yourself with the different components.

1. Familiarícese con los diferentes componentes.

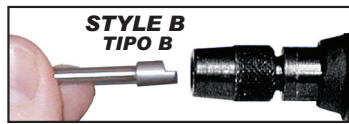
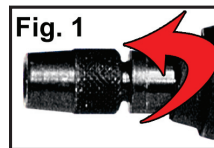


2. Determine which style BIT you are using by identifying where the FLAT SURFACE is located.

2. Determine que tipo de punta esta utilizando, identificando la parte plana de la misma.

3. Loosen the COLLET NUT. 2-3 threads showing.(Fig.1)

3. Afloje la tuerca exponiendo de 2 a 3 hilos de la rosca. (Figura 1)



4. Insert the BIT into the COLLET NUT with the FLAT SURFACE facing DOWN.

4. Inserte la punta dentro adaptador de la pistola con la parte plana hacia abajo.

## Troubleshooting

If the trouble persists even though the bit and sleeve is inserted correctly, follow these steps to ensure that your tools are not damaged:

- Remove the bit and sleeve from the wire wrap gun. Squeezing the trigger should provide a smooth motion. If the gun does not operate smoothly or there is evidence of uneven wear on the bit, there may be internal damage and the tool should be returned to JDV for evaluation.
- The bit and/or sleeve may be bent or damaged. Try using a new JDV PRODUCTS bit and sleeve by following the guide on page 2. For bit and sleeve selection, see pages 4-5.
- With the bit and sleeve installed into the wire wrap gun, look into the tip of the sleeve. The indexing slot (where the wire is inserted into the bit) should be at twelve-o'clock position. If this is not true, then the gun should be returned to JDV for evaluation.

## Localización de Problemas

Si esta teniendo problemas estando la punta y manga en posición correcta, siga los siguientes pasos para asegurar que su herramienta no este dañada:

- Remueva la punta y la manga de la pistola. Al apretar el gatillo deberá haber un movimiento suave. Si la pistola no opera suavemente o existe evidencia de desgaste disperejo en la punta, es posible que haya daño interno en la herramienta y deberá ser enviada a JDV para su evaluación.
- La punta o la manga podrían estar dobladas o lastimadas. Pruebe utilizando una nueva punta de JDV Products siguiendo los siete pasos en la pagina 2. Para seleccionar puntas y mangas vea la pagina 4-5.
- Con la punta y la manga debidamente instaladas en la pistola de enrollado, mire la punta de la manga. El agujero donde se monta el alambre en la punta deberá estar en la parte superior (posición de las 12:00 en punto.) Si esto no es cierto, entonces la pistola tendrá que ser enviada a JDV para ser evaluada.

## SOME HINTS ON MAKING WRAPPED CONNECTIONS

### ALGUNOS CONSEJOS AL HACER CONECCIONES DE ENROLLADO

#### Overwrap



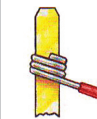
#### Overwrap

Don't press too hard. Pressing down too hard on the tool during the wire wrapping operation results in "overwrapping" in which one or more turns of wire can slip over the preceding turns. An anti-backforce device is helpful in preventing overwrap.

#### Conexión Encimada

No presione muy fuerte. Al presionar muy fuerte al hacer la operación de enrollado resulta una conexión encimada. Un aditamento "anti-backforce" es útil para prevenir conexiones encimadas.

#### Insufficient Turns



#### Insufficient Turns

Push wire all the way into wire slot. Improper feeding of the wire into the wire slot of the bit results in insufficient turns of wire for regular wraps or insufficient insulation turns for modified wraps.

#### Vueltas Insuficientes

Empuje el cable hasta el fondo. Cargar el cable en la punta inadecuadamente da como resultado insuficientes vueltas de cable para enrollado regular y insuficientes vueltas con funda en enrollados modificadoos.

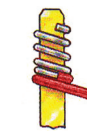
#### Open Wrap



#### Spiral or Open Wrap

Don't remove the tool too quickly. Removal of the wrapping tool before the wrap is completed can result in "spiral" or "open" wraps, where one turn of wire is more than 0.005" from another turn. "Pigtails", where the final turn of wire is not completely wrapped, are also caused by too rapid a removal of the wrap tool.

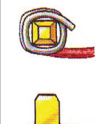
#### Spiral Wrap



#### Enrollado en Espiral o Abierto

No retire la herramienta muy rápido. Al remover la herramienta antes de que se complete el enrollado resultara en "espiral" o "abierto", donde una vuelta de cable estará mas de 0.005 de otra. "Colitas" es cuando la ultima vuelta no esta completamente enrollada, su causa también es por retirar muy rápido la pistola.

#### Pigtail



#### Pigtails

The particular wire wrapping bit and sleeve depend upon the size (terminal diagonal) of the terminal to be wrapped. If the terminal hole diameter of the bit is improperly matched to the terminal diagonal, defects ranging from loose turns to "pigtails" can result.

#### Colita

Seleccione la punta y manga correctas. La particular punta y manga dependen del tamaño de la terminal donde se hará la conexión. Si el diámetro del agujero de la punta no es el adecuado abran defectos como terminales flojas y colitas que vienen siendo colitas o terminado incorrecto.

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.

**Regular**  
Regular



**Modificado**  
Modified

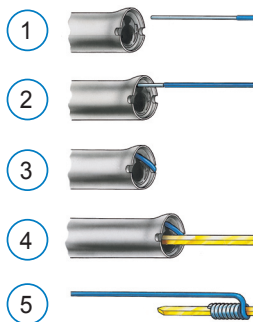


A "Regular" bit wraps the bare wire around the terminal. A "Modified" bit wraps a portion of insulation around the terminal in addition to the bare wire. This greatly increases the ability to withstand vibration.

Un enrollado de punta "Regular" la parte de cable sin aislamiento se enrolla en la terminal. Un enrollado de punta "Modificado" tiene una porción de aislamiento del cable enrollado en la terminal. Esto aumenta la habilidad de soportar vibración.

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.

Una ventaja distintiva del enrollado de cables es lo fácil que el cable puede ser removido del terminal para corregir errores o modificar cableados. Una herramienta de desenrollado es deslizada sobre la terminal agarrando la primera envoltura o conexión. Rotando la herramienta, la conexión es removida en segundos, sin ocasionar daños a la terminal.

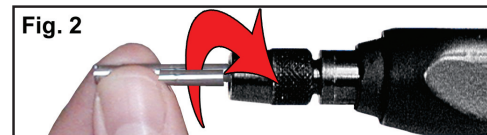


**Five Steps To Make A Wire Wrap Connection**

**Cinco Pasos para Hacer una Conexión**

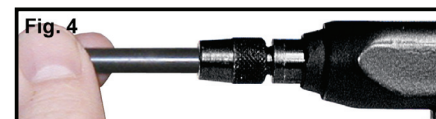
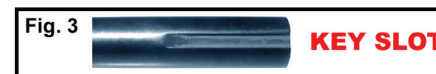
**Wire Size Chart**  
Tabla de Calibres de Cable

Bare Wire Dia.		AWG (USA)	SWG (GB)
In.	mm		
.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	0.225	31	
.0084	0.213		35
0.008	0.203	32	



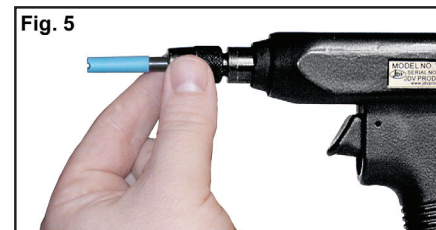
5. Rotate the BIT clockwise 180° to seat the BIT into the WIRE WRAP GUN. (Fig. 2) When the BIT is seated properly, squeezing the TRIGGER of the gun will make the BIT spin.

5. Gire la punta hacia la derecha 180° para asentar la punta en su lugar en la pistola de Enrollado. (Figura 2) Cuando la punta es asentada apropiadamente, apretando el gatillo de la pistola hará girar la punta.



6. Locate the KEY SLOT on the SLEEVE. (Fig. 3) With the KEY SLOT pointing DOWN, slide the SLEEVE over the BIT and engage with the pin inside the COLLET NUT. (Fig. 4)

6. Localice la ranura en la manga. (Figura 3) Con la ranura hacia abajo, deslice la manga sobre la punta y posicione el pivote dentro de su posición. (Figura 4)



7. Tighten the COLLET NUT while squeezing the TRIGGER. This will create a small amount of clearance between the BIT, SLEEVE, and BIT DRIVER to prevent "locking" occurs, the BIT will slow or jam the gun and produce grinding sounds. (Fig. 5)

7. Apriete la tuerca mientras actúa el gatillo, para crear una separación entre la punta y la manga, así como la guía de la pistola. Esto previene que se aprisione el mecanismo o que se produzcan ruidos con fricción. (Figura 5)

**Terminal Diagonal Chart**

**Tabla para Identificar la Medida Diagonal de las Terminales**

In.	.010	.015	.020	.025	.030	.035	.040	.045	.050	.055	.060	.065	.070	.075	.080	.085	.090	.095	.100
mm	0.25	0.38	0.51	0.64	0.76	0.89	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	.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
.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

# MODIFIED WRAP BITS & SLEEVES

## PUNTAS Y MANGAS PARA WIRE WRAP ENROLLADO ACAMBRE

Tipo Modificado



AWG (inches)						BIT PART No.	SLEEVE PART No.	METRIC (mm)					
Wire Gauge (AWG)	Max Insulation Dia.	Min/Max Terminal Diagonal	Term Hole Depth	Effective Radius	Term Hole Dia			Term Hole Dia	Effective Radius	Term Hole Depth	Min/Max Terminal Diagonal	Max Insulation Dia	Wire Gauge (mm)
20	.058	.042/.073	1.000	.150	.075	<b>BM20</b>	<b>S194LN</b>	1.90	3.81	25.40	1.07/1.85	1.47	0.80
22	.054	.049/.074	1.000	.132	.075	<b>BM22</b>	<b>S171</b>	1.90	3.35	25.40	1.24/1.87	1.37	0.65
22-24	.050	.049/.074	1.250	.121	.075	<b>BM224</b>	<b>S171</b>	1.90	3.07	31.75	1.24/1.87	1.27	.50-.65
24	.046	.054/.073	1.750	.117	.075	<b>BM24DD</b>	<b>S171</b>	1.90	2.97	44.50	1.37/1.87	1.17	0.50
24	.044	.024/.043	0.750	.098	.044	<b>BM2444*</b>	<b>S125LN*</b>	1.11	2.48	19.05	0.60/1.09	1.11	0.50
24	.046	.054/.073	0.750	.118	.075	<b>BM24</b>	<b>S171</b>	1.90	2.99	19.05	1.07/1.85	1.17	0.50
24-26	.046	.054/.073	0.750	.118	.075	<b>BM2426</b>	<b>S171</b>	1.90	2.99	19.05	1.37/1.85	1.17	.40-.50
26	.031	.023/.038	0.750	.075	.040	<b>BM2640*</b>	<b>S93*</b>	1.02	1.90	19.05	0.58/0.96	0.79	0.40
26	.046	.054/.073	1.000	.118	.075	<b>BM26</b>	<b>S171</b>	1.90	2.99	25.40	1.37/1.85	1.17	0.40
26	.044	.028/.044	0.750	.098	.044	<b>BM2644*</b>	<b>S125LN*</b>	1.11	2.48	19.05	0.71/1.12	1.11	0.40
26	.042	.053/.068	1.000	.109	.069	<b>BM2669</b>	<b>S159</b>	1.75	2.77	25.40	1.34/1.72	1.04	0.40
26	.050	.053/.068	1.125	.118	.069	<b>BM26D</b>	<b>S171</b>	1.75	2.99	28.50	1.34/1.72	1.27	0.40
28	.030	.031/.035	0.750	.066	.036	<b>BM28*</b>	<b>S93*</b>	0.91	1.67	19.05	0.79/0.89	0.76	0.32
28	.030	.031/.035	1.125	.066	.036	<b>BM28-1125*</b>	<b>S93*</b>	0.91	1.67	28.57	0.79/0.89	0.76	0.32
28	.030	.031/.035	1.250	.066	.036	<b>BM28-1250*</b>	<b>S93*</b>	0.91	1.67	31.75	0.79/0.89	0.76	0.32
28	.034	.053/.068	1.000	.103	.070	<b>BM2870</b>	<b>S159</b>	1.78	2.61	25.40	1.35/1.72	0.86	0.32
28-29	.036	.033/.038	0.750	.091	.040	<b>BM2840*</b>	<b>S125*</b>	1.02	2.31	19.05	0.83/0.96	0.91	.29-.32
30	.023	.030/.035	0.750	.061	.036	<b>BM30SW*</b>	<b>S93*</b>	.091	1.54	19.05	.099/1.06	0.58	0.25
30	.027	.031/.035	0.750	.064	.043	<b>BM3043*</b>	<b>S93*</b>	1.09	1.62	19.05	0.79/0.89	0.69	0.25
30	.027	.031/.035	0.750	.064	.036	<b>BM30*</b>	<b>S93*</b>	0.91	1.62	19.05	0.79/0.89	0.68	0.25
30	.027	.031/.035	1.125	.064	.036	<b>BM30-1125*</b>	<b>S93*</b>	0.91	1.62	28.57	0.79/0.89	0.68	0.25
30	.023	.030/.035	0.750	.064	.036	<b>BM30SI*</b>	<b>S93*</b>	0.91	1.62	19.05	0.76/0.89	0.58	0.25
30	.027	.060/.064	1.000	.106	.066	<b>BM3066</b>	<b>S159</b>	1.67	2.70	25.40	1.52/1.62	0.69	0.25
30	.027	.027/.030	0.750	.066	.031	<b>BM3031*</b>	<b>S93*</b>	0.79	1.67	19.05	0.69/0.76	0.69	0.25
30-32	.027	.034/.038	0.750	.064	.040	<b>BM3040*</b>	<b>S93*</b>	1.02	1.62	19.05	0.86/0.96	0.69	.20-.25
30-32	.029	.062/.065	1.000	.100	.067	<b>BM3068</b>	<b>S125LD</b>	1.70	2.54	25.40	1.57/1.65	0.74	.20-.25

\* These tools are recommended for .025" square terminals on 0.100 centers / 0.63 mm square on 2.54 mm centers.  
 \* Los modelos con asterisco son recomendados para terminales cuadradas de .025" (0.63mm con distancias de 2.54mm entre el centro de una terminal y otra.)

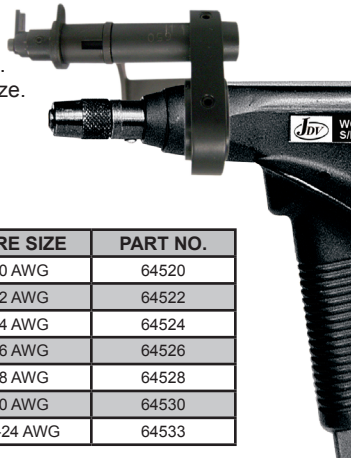
### MODEL WS650 - Cut 7 Strip Attachment

Model WS650 works with all JDV pneumatic wire wrapping tools. Order stripping blades separately from attachment to suit wire size.

BLADE (SEE CHART)



WIRE SIZE	PART NO.
20 AWG	64520
22 AWG	64522
24 AWG	64524
26 AWG	64526
28 AWG	64528
30 AWG	64530
22-24 AWG	64533



# REGULAR WRAP BITS & SLEEVES

## PUNTAS Y MANGAS PARA WIRE WRAP ENROLLADO ACAMBRE

Tipo Regular



AWG (inches)						BIT PART No.	SLEEVE PART No.	METRIC (mm)					
Wire Gauge (AWG)	Max Insulation Dia	Min/Max Terminal Diagonal	Term Hole Depth	Effective Radius	Term Hole Dia			Term Hole Dia	Effective Radius	Term Hole Depth	Min/Max Terminal Diagonal	Max Insulation Dia	Wire Gauge (mm)
18	N/A	.060/.073	1.000	.150	.075	<b>BR18</b>	<b>S194</b>	1.90	3.81	25.40	1.52/1.85	N/A	1.00
19	N/A	.042/.073	1.000	.123	.075	<b>BR19</b>	<b>S171</b>	1.90	3.12	25.40	1.07/1.85	N/A	0.91
19-20	N/A	.091/1.122	1.000	.150	.125	<b>BR1920L</b>	<b>S212</b>	3.17	3.81	25.40	2.31/3.09	N/A	.80-.91
20	N/A	.091/1.122	1.000	.150	.125	<b>BR20L</b>	<b>S212</b>	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	<b>BR20</b>	<b>S171</b>	1.90	3.12	25.40	1.07/1.85	N/A	.65-.80
22	N/A	.061/.085	1.000	.125	.086	<b>BR22T</b>	<b>S171</b>	2.18	3.17	25.40	1.54/2.15	N/A	0.65
22	N/A	.054/.073	0.750	.117	.075	<b>BR22</b>	<b>S171</b>	1.90	2.97	19.05	1.37/1.85	N/A	0.65
22-24	N/A	.054/.073	1.000	.111	.075	<b>BR224-1</b>	<b>S171</b>	1.90	2.82	25.40	1.37/1.85	N/A	.50-.65
22-24	N/A	.054/.073	0.807	.111	.075	<b>BR224</b>	<b>S171</b>	1.90	2.82	20.50	1.37/1.85	N/A	.50-.65
24	N/A	.024/.043	1.000	.083	.044	<b>BR2444*</b>	<b>S125LN*</b>	1.11	2.10	25.40	0.60/1.09	N/A	0.50
24	N/A	.055/.074	1.500	.100	.075	<b>BR24D</b>	<b>S159</b>	1.90	2.54	38.10	1.39/1.87	N/A	0.50
24	N/A	.055/.074	0.750	.100	.075	<b>BR24</b>	<b>S159</b>	1.90	2.54	19.05	1.39/1.87	N/A	0.50
24-26	N/A	.058/.073	0.750	.100	.075	<b>BR2426</b>	<b>S159</b>	1.90	2.54	19.05	1.47/1.85	N/A	.40-.50
24-26	N/A	.054/.065	1.000	.098	.066	<b>BR2466</b>	<b>S125LD</b>	1.67	2.48	25.40	1.37/1.65	N/A	.40-.50
26	N/A	.054/.073	1.000	.112	.075	<b>BR16903</b>	<b>S159</b>	1.90	2.84	25.40	1.37/1.85	N/A	0.40
26	N/A	.023/.038	0.750	.068	.040	<b>BR2639*</b>	<b>S93LN*</b>	1.02	1.72	19.05	0.58/0.96	N/A	0.40
26	N/A	.058/.073	1.000	.100	.075	<b>BR26</b>	<b>S159</b>	1.90	2.54	25.40	1.47/1.85	N/A	0.40
30-32	N/A	.034/.038	0.750	.064	.040	<b>BR30*</b>	<b>S93*</b>	1.02	1.62	19.05	0.86/0.96	N/A	.20-.25

All Bits & Sleeves are Fully Compatible with any Make or Model Wire Wrapping Tool  
 Todas las Puntas y Mangas son Totalmente Compatibles con Cualquier Marca y Modelo de herramientas para Wire Wrap.

### CSW (Cut/Strip/Wrap) Bits

Our Cut, Strip, and Wrap Bits are designed to cut the insulated copper wire to length, strip free the necessary length of insulation, and wrap the correct number of wire loops around the terminal pin.



WIRE SIZE AWG	PART No. BIT & SLEEVE	WIRE DIAMETER		TERM. HOLE DIAMETER		MIN. TERM. SPACING		"A" DIAMETER		NUMBER OF INSULATED LOOPS
		in.	mm	in.	mm	in.	mm	in.	mm	
22	79222	0.046-0.050	1.17-1.27	0.07	1.78	0.19	4.83	0.25	6.35	3/4
22	79223	0.050-0.054	1.27-1.37	0.07	1.78	0.19	4.83	0.25	6.35	3/4
22	79224	0.054-0.058	1.37-1.47	0.07	1.78	0.2	5.08	0.25	6.35	3/4
24	79241	0.028-0.032	0.71-0.81	0.07	1.78	0.16	4.06	0.21	5.33	3/4
24	79242	0.032-0.036	0.81-0.91	0.07	1.78	0.16	4.06	0.21	5.33	3/4
24	79243	0.036-0.040	0.91-1.02	0.07	1.78	0.16	4.06	0.21	5.33	3/4
24	79244	0.040-0.044	1.02-1.12	0.07	1.78	0.17	4.32	0.21	5.33	3/4
24	79245	0.044-0.048	1.12-1.22	0.07	1.78	0.17	4.32	0.21	5.33	3/4
26	79261	0.032-0.026	0.56-0.66	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	79262	0.026-0.030	0.66-0.76	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	79263	0.030-0.034	0.76-0.86	0.07	1.78	0.16	4.06	0.21	5.33	3/4
26	79266	0.025-0.029	0.64-0.74	0.043	1.09	0.112	2.85	0.146	3.71	3/4
26	79267	0.030-0.034	0.76-0.86	0.043	1.09	0.112	2.85	0.146	3.71	3/4
28	79281	0.022-0.025	0.56-0.64	0.038	0.97	0.102	2.59	0.13	3.3	3/4
30	79301	0.019-0.021	0.48-0.53	0.038	0.97	0.1	2.54	0.13	3.3	3/4
30	79302	0.019-0.022	0.48-0.55	0.038	0.97	0.1	2.54	0.13	3.3	3/4