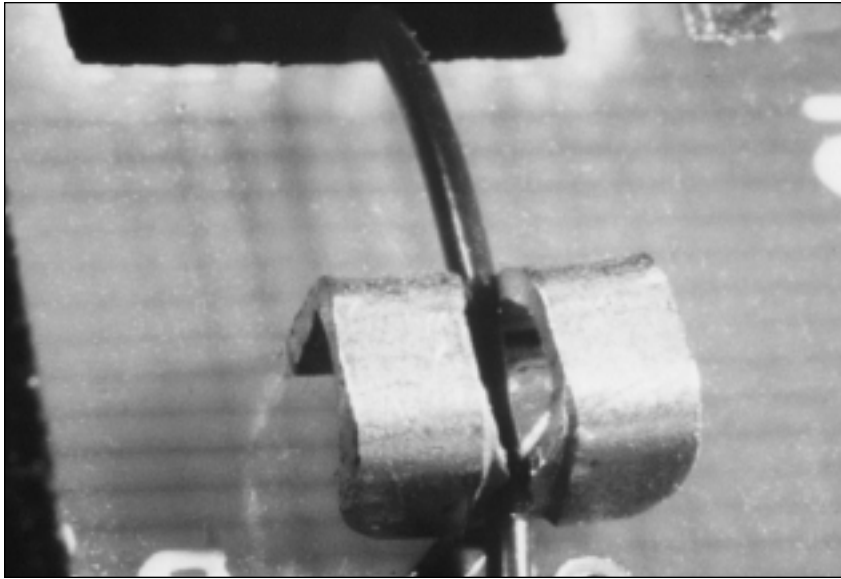




Zierick's award-winning Torsion-Lok™ IDC is a cost-effective method of wire connection, providing exceptional flexibility and superior performance compared to traditional rigid contact beam IDC styles.

Zierick's award-winning Torsion-Lok™ insulation displacement connector (IDC*) allows connection and insulation shear in one motion, eliminating pre-stripping. The Torsion-Lok™ IDC received the PMA-Higgins Design Award based on its ability to deliver exceptional performance while saving costs.

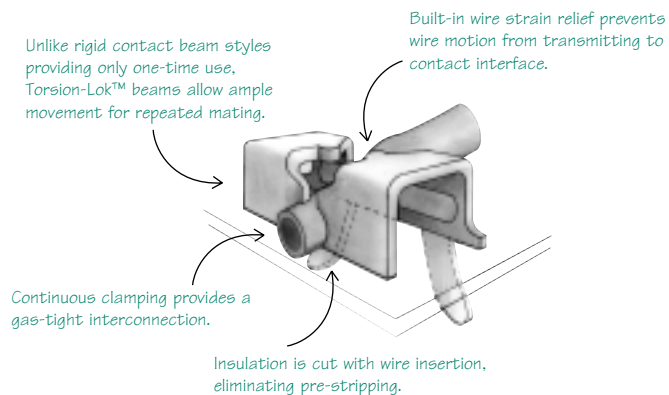
Designed for rigorous PCB and wire-end connection requirements, Torsion-Lok™ IDC's outperform traditional rigid contact beam IDC styles. Unlike a rigid IDC, the Torsion-Lok™ permits a high degree of movement by the connection contacts. This greater movement allows a contact beam deflection range that is many times greater than traditional IDC's. Connection is achieved by simply pushing the wire into the high deflection, zero clearance connection slot for a reliable, gas tight connection.

The Torsion-Lok™ design provides a predictable, pre-loaded connection force. The torsional beams provide ample stored energy and are highly resistant to permanent deformation and stress relaxation. The gas tight interconnection is maintained

without wire creep and slip. It withstands repeated mating cycles, vibration, and temperature cycling.

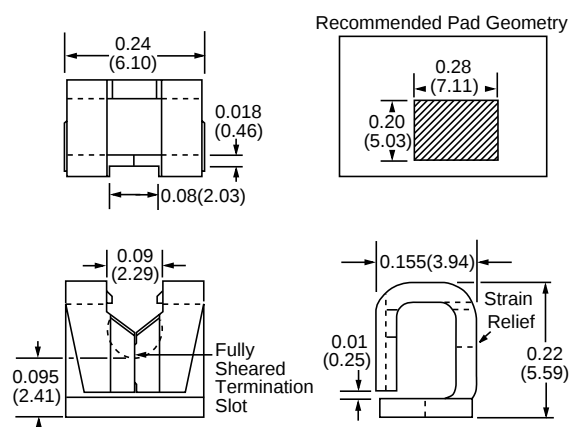
Zierick's family of Torsion-Lok™ IDC's are available in loose and reeled formats for #30 through #14 AWG solid or stranded wire sizes. PCB and wire assembly can be done manually with Zierick hand tools and fixtures or automatically with Zierick semi-and fully-automated applicator systems.

- The Torsion-Lok™ IDC can be a cost-effective wire connection alternative.
- Torsion-Lok™ IDC's provide superior performance compared to rigid contact beam IDC styles.
- The high-deflection contact beam design withstands repeated mating cycles and harsh conditions.



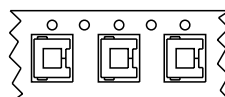
**U.S. Patent No. 5,022,868 and other international patents*

NOTE: Internal strain relief dimensions dependent on wire/insulation; please consult factory.



Loose Part No.	1196	1196T
Reeled Part No.	6196-6	
Material Thickness/Type	0.032" (0.81mm) Brass	
Standard Finish	95/5 Matt Tin/Lead over Copper	
Applicator System	Surf-Shooter SMT™	Standard Feeder
Wire Gauge Range*	#26-18 AWG	

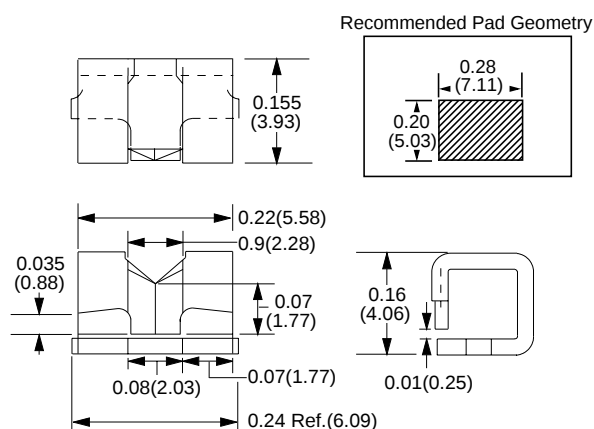
* Wire insertion tool required.
Consult factory.



Also available in
Carrier Tape (1196T)

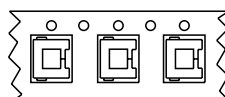
U.S. Patent No. 5,022,868 and other international patents

NOTE: Internal strain relief dimensions dependent on wire/insulation; please consult factory.



Loose Part No.	1208	1208T
Reeled Part No.	6208-6	
Material Thickness/Type	0.025" (0.64mm) Brass	
Standard Finish	Loose: Pre-plated 100% Matt Tin over Copper Reeled: 95/5 Matt Tin/Lead over Copper	
Applicator System	Surf-Shooter SMT™	Standard Feeder
Wire Gauge Range*	#26-18 AWG	

* Wire insertion tool required.
Consult factory.

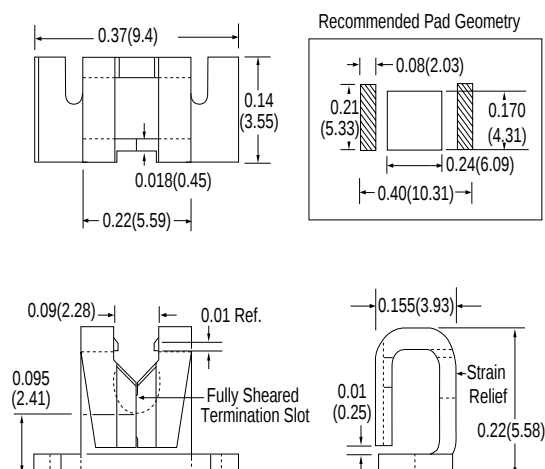


Also available in
Carrier Tape (1208T)

U.S. Patent No. 5,022,868 and other international patents

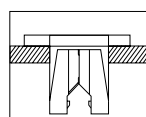
Reverse Mount SMT IDC

NOTE: Internal strain relief dimensions dependent on wire/insulation; please consult factory.



Loose Part No.	1227-6	
Reeled Part No.	6227-6	
Material Thickness/Type	0.032" (0.81mm) Brass	
Standard Finish	Loose: 95/5 Matt Tin/Lead over Copper Reeled: 95/5 Matt Tin/Lead over Copper	
Applicator System	Surf-Shooter SMT™	
Wire Gauge Range*	#26-18 AWG	

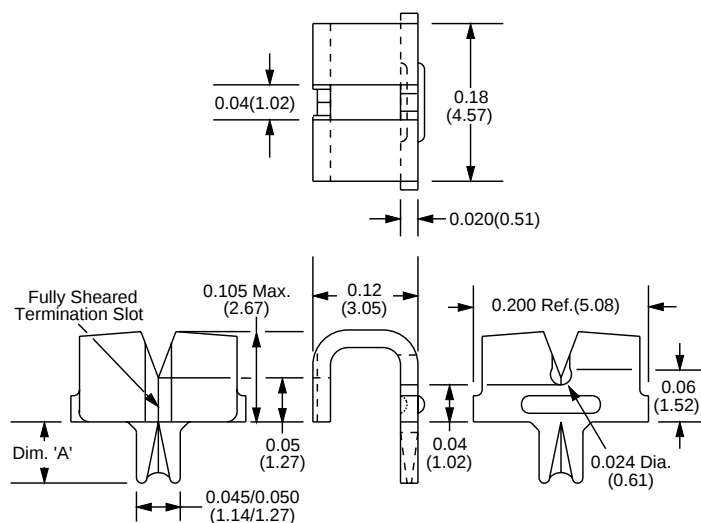
* Wire insertion tool required.
Consult factory.



Actual Use

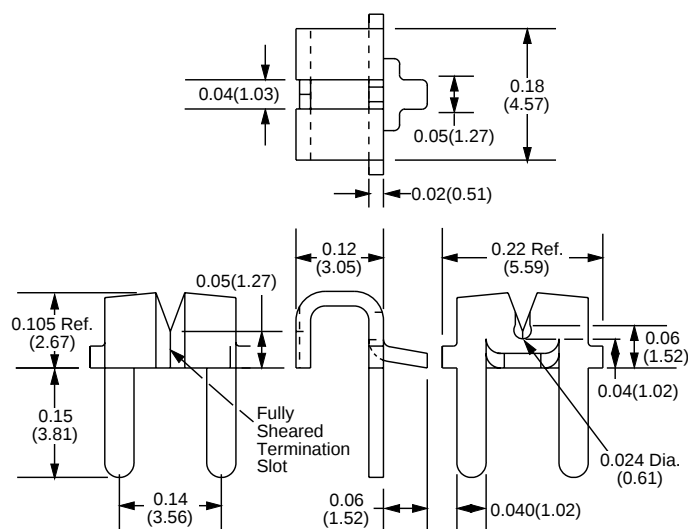
U.S. Patent No. 5,022,868 and other international patents

Torsion-Lok™ IDC (Insulation Displacement Connector) For #30-26 AWG Wire



Loose Part No.	1182	1183
Reeled Part No.	6182-6	6183-6
Mounting Type	Accu-Lok™ For 0.031" (0.79mm) Thick PCB	Accu-Lok™ For 0.062" (1.57mm) Thick PCB
Material Thickness/Type	0.020" (0.51mm) Brass	0.020" (0.51mm) Brass
Standard Finish	Loose: 100% Matt Tin over Copper Reeled: 95/5 Matt Tin/Lead over Copper	
Wire Gauge Range	#30-26 AWG	#30-26 AWG
Mounting Hole Diameter	Single hole 0.055" ±0.003" (1.4mm ±0.076)	
Applicator System	Loose: ZPT-1081, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Termination Tool: WTX-XXXX-X Wire Termination Press: Model 5500	
"A" Dim	0.070" (1.78mm)	0.100" (2.54mm)

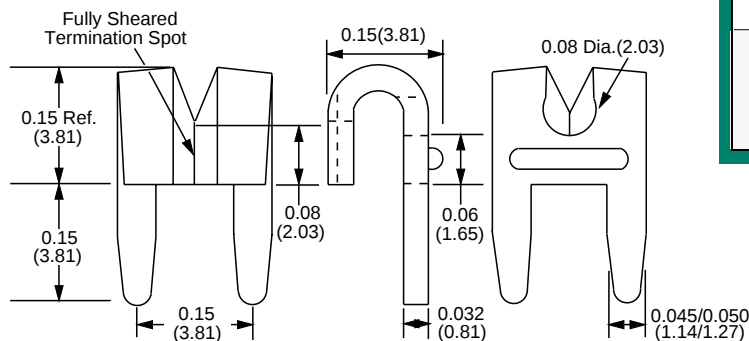
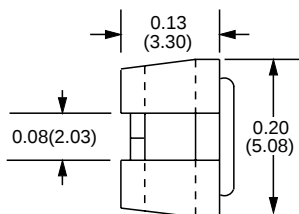
U.S. Patent No. 5,022,868 and other international patents
For exact finish specifications and available special finishes, see Finish Table (page 89).



Loose Part No.	N/A
Reeled Part No.	6114-6
Mounting Type	Outward or Inward Splay Surface Mount Solder 0.062" thick PCB
Material Thickness/Type	0.020" (0.51mm) Brass
Standard Finish	Loose: 100% Matt Tin over Copper Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#30-26 AWG
Mounting Hole Diameter	2x 0.050" ±0.003" (1.27mm ± 0.076) holes on 0.140 (3.56mm) centers
Applicator System	Loose: ZPT-1114, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Termination Tool: WTX-XXXX-X Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents
For exact finish specifications and available special finishes, see Finish Table (page 89).

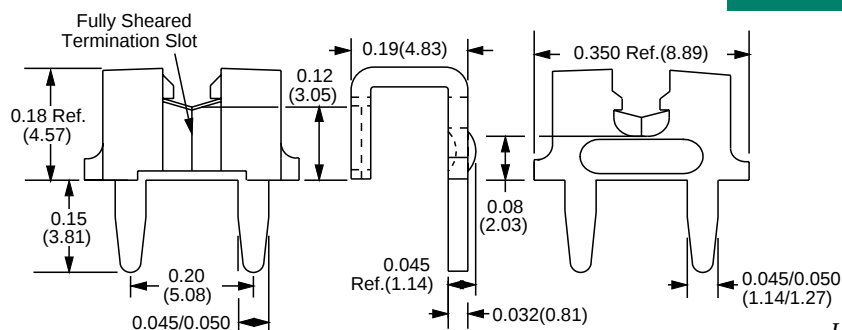
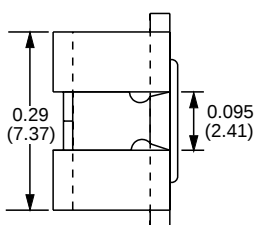
Torsion-Lok™ IDC (Insulation Displacement Connector) For #24–18 AWG Wire



Loose Part No.	N/A
Reeled Part No.	6119-6
Mounting Type	Outward or Inward Splay 0.062" thick PCB
Material Thickness/Type	0.032" (0.81mm) Brass
Standard Finish	Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#24-18 AWG
Mounting Hole Diameter	2x 0.058" ±0.003 (1.47mm ±0.076) holes on 0.15" (3.81mm) centers
Applicator System	Loose: ZPT-1119, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Termination Tool: WTX-XXXX-X Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents

For exact finish specifications and available special finishes, see Finish Table (page 89).

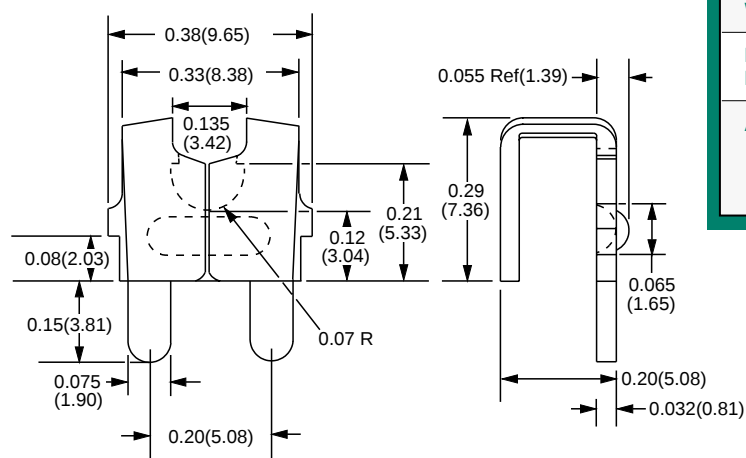


Loose Part No.	1039
Reeled Part No.	6039-6
Mounting Type	Outward or Inward Splay 0.062" thick PCB
Material Thickness/Type	0.032" (0.81mm) Brass
Standard Finish	Loose: 100% Matt Tin over Copper Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#24-18 AWG
Mounting Hole Diameter	2x 0.058" ±0.003 (1.47mm ±0.076) holes on 0.20" (5.08mm) centers
Applicator System	Loose: ZPT-1039, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Termination Tool: WTX-XXXX-X Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents

For exact finish specifications and available special finishes, see Finish Table (page 89).

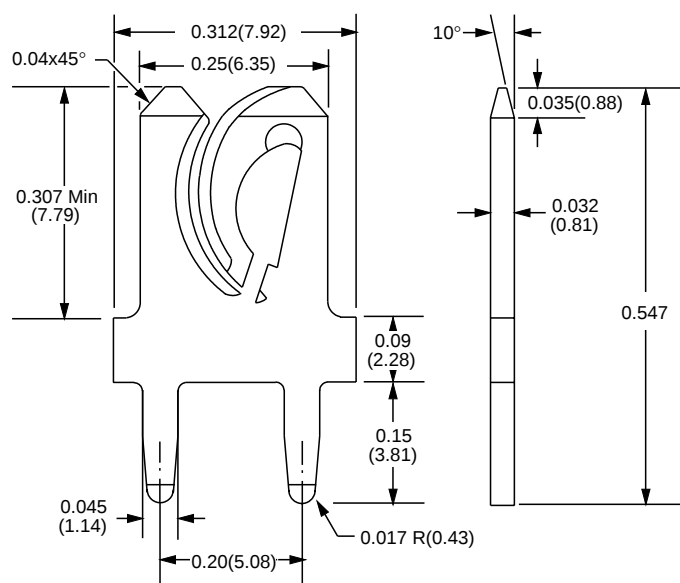
Torsion-Lok™ IDC (Insulation Displacement Connector) For #16–14 AWG Wire



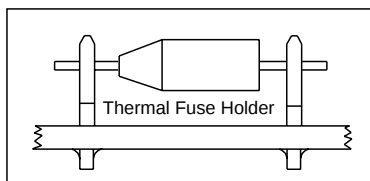
Loose Part No.	1174
Reeled Part No.	6174-6
Mounting Type	Outward or Inward Splay
Material Thickness/Type	0.032" (0.81mm) Brass
Standard Finish	Loose: 95/5 Matt Tin/Lead over Copper Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#16–14 AWG
Mounting Hole Diameter	2x 0.080" ± 0.003 (2.03mm ± 0.076) holes on 0.20" (5.08mm) centers
Applicator System	Loose: ZPT-1174, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Term Tool: WTX-XXXX-X Wire Termination Press: Model 5500

U.S. Patent No. 5,022,868 and other international patents
For exact finish specifications and available special finishes, see Finish Table (page 89).

IDC (Insulation Displacement Connector)/Quick Disconnect Tab For #24–18 AWG Wire



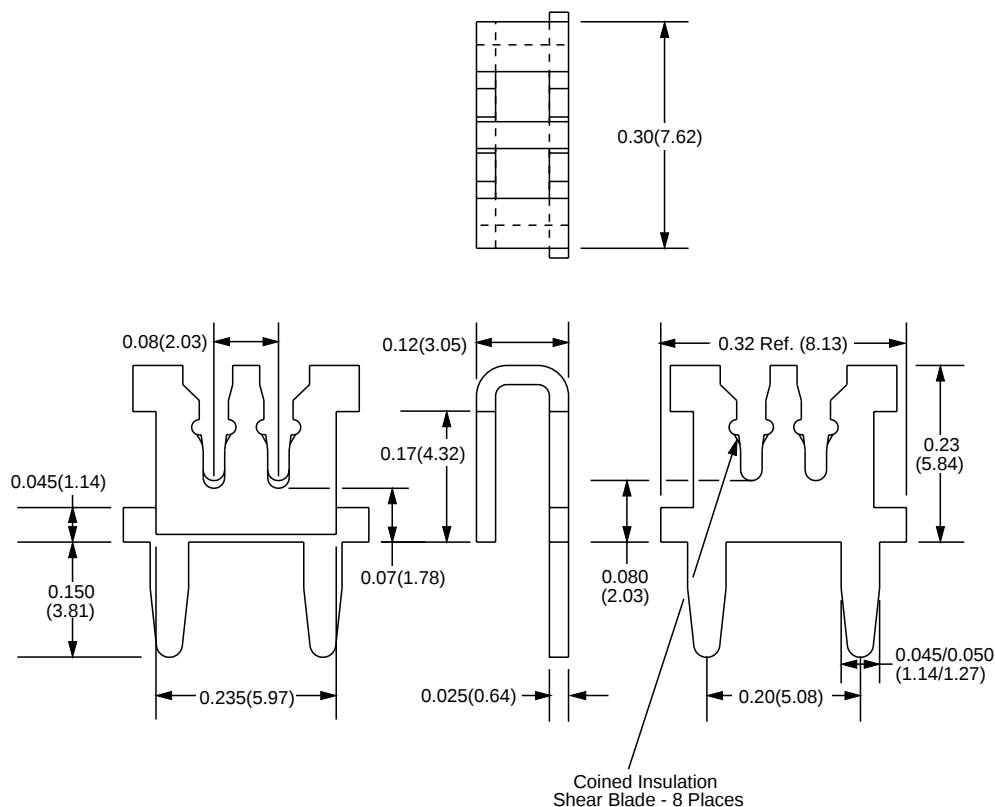
Loose Part No.	1185
Reeled Part No.	6185-6
Mounting Type	Outward or Inward Splay
Material Thickness/Type	0.032" (0.81) Brass
Standard Finish	Loose: 100% Matt Tin over Copper Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#24–18 AWG
Mounting Hole Diameter	2x 0.058" ± 0.003 (1.47mm ± 0.076) holes on 0.20" (5.08mm) centers
Applicator System	Loose: ZPT-81A, Model 1000-81A Reeled: Model 7000, 9500, 9712, 9718 Wire Term Tool: ZPT81-A-SPL Wire Termination Press: Model 5500



Optional Use
For exact finish specifications and available special finishes, see Finish Table (page 89).

IDC (Insulation Displacement Connector) For #19-18 AWG Magnet Wire

Loose Part No.	1072
Reeled Part No.	6072-6
Mounting Type	Outward or Inward Splay
Material Thickness/ Type	0.025" (0.64mm) Brass
Standard Finish	Loose: 95/5 Matt Tin/Lead over Copper Reeled: 95/5 Matt Tin/Lead over Copper
Wire Gauge Range	#19-18 AWG Magnet Wire
Mounting Hole Diameter	2x 0.058" $\pm$ 0.003 (1.47mm $\pm$ 0.076) holes on 0.20" (5.08mm) centers
Applicator System	Loose: ZPT-1072, Model 1000 Reeled: Model 9500, 9712, 9718 Wire Termination Tool: WTX-XXXX-X Wire Termination Press: Model 5500



For exact finish specifications and available special finishes, see Finish Table (page 89).

Manual and Semi-Automatic IDC Wire Insertion Tools

Zierick offers a variety of wire insertion tools for wire to IDC connections. These include wire insertion hand tools for limited volume applications, a pneumatic hand tool for faster and easier connections, and the Model 5500 wire insertion press. The Foot Pedal-Activated Model 5500 wire termination system is capable of terminating multiple wires at one time. Its modular design easily adapts to various applications.



WTW-1XXX



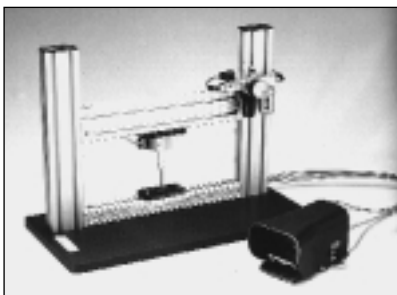
WTCP-1XXX



WTP-4ALL



WTPPS-1XXX-X



M5500 INSERTION PRESS



WTPPL-1XXX-X