WECO®

Electrical and Electronic Terminal Blocks and Modules

Supplement Catalog No. 201

Corporate **information**

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CERTIFICATE OF REGISTRATION

WECO Electrical Connectors Inc.
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H9X 3R8 Canada

ISO 9001:2000

The following scope of registration applies:

Design and manufacture of electrical, electronic connectors and modules for printed circuits, DIN rail, panel and chassis applications. Custom testing services.

Certificate Number: 002502
SIC Number: 3643
Date of Original Registration: August 27, 1994
Date of Current Registration: December 3, 2001
Date Registration Expires: December 3, 2004

Robert McGrillis
President

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Canada & United States

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***** WECO Electrical Connectors Inc. features in this *"Supplement Catalog"* a small portion of its products.
To see our complete product listing, please consult our URL (web) links that will bring you directly to the data information of all our products.

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Technical Specification and Conditions of Sale

Every care has been taken to ensure the accuracy of our catalog data. We do not, however, accept responsibility for damage, loss or expense resulting from any error or omission. We reserve the right to make alterations in line with technical advances and industry standards. Goods are supplied in accordance with our Terms and Conditions of Sales.

Corporate **profile**

Founded in 1921, in Hanau, Germany, WECO dealt in new ideas from the beginning. The Company's first major success was the patent granted for the development of jacket clamps used in electrical installations. The rapidly expanding use of electricity and all its related technologies promoted the improvement and development of electrical and electronic connectors. WECO was the first to use thermoplastics in the design and manufacturing of coupling and splicing techniques.

Today, WECO offers more than 10,000 products to a world wide customer base. Combining revolutionary modern design with trusted European standards of engineering, our three manufacturing facilities based in Germany, Canada and Tunisia provide high quality products for a very large variety of applications in diverse industries.

The territories of North, South and Central America are covered by WECO Electrical Connectors Inc., located in Montreal, Canada. Since 1983, we have specialized in producing connectors for printed circuit board, panel/chassis and surface mount terminal blocks. Our operation also includes an extensive network of sales representatives and distributors located throughout the Americas.

WECO also develops specialty products to meet customer requirements. The wide variety of connectors, terminal blocks and electronic modules produced by WECO lets our customers rely on us to provide creative solutions to their design needs, whether that involves existing, modified or custom designs. WECO designs all of its products according to VDE requirements and has obtained approvals from many international testing authorities including UL and CSA. WECO has its own testing facilities to perform tests for UL and CSA approvals.

When a customer or industry has a need that cannot be satisfied by standard, off-the-shelf products, custom designs become necessary. WECO has had the opportunity to assist key manufacturers in the consumer electronics, electrical, audio visual, HVAC and process control industries in finding solutions to their product design needs.

Connector application knowledge is one of the important keys to our success. Let us provide your terminal block requirements from our comprehensive product line or custom products tailored to meet your requirements.
Please contact your WECO account representative.

WECO®

Where solutions are by design

WECO Trademarks

TRADEMARKS	LOGOS	PRODUCT CATEGORY	SERIES
WECO	WECO®	All categories	All series
SMarTconn	SMARTCONN®	SMT & THR	140-A-SMD 140-A-521-SMD 140-A-524-SMD 930-T-D-SMD 971-SLK-SMD 930-THR 950-THR 970-THR 120-M-211-THR 120-M-221-THR 971-SLK-THR
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WECOnnexion	WECOnnexion	Tab & solder connectors	Section D

Color **Specifications**

Let WECO custom design it for you!

WECO Electrical Connectors inc. is about great quality connectors. WECO is also about servicing your specific needs. Would you like to have your connectors in a specific color? We will customize it for you. For most products, the standard WECO color is charcoal gray. For all series 300, the standard color is off-white. ***Minimum Order Quantity may apply.***

LIGHT GRAY

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-0.

BLACK

Any polyamide terminal blocks can be shipped in black color.

YELLOW GREEN

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-0.

VERMILLON ORANGE

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-2.

PLATINUM GRAY

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-2.

TURQUOISE BLUE

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-2.

BRILLANT BLUE

Available for products made of polyamide (no glass fiber) with self extinguishing specification to UL 94, V-0.

For other color options, please contact us for details.

Design features **and options**

Screw Connectors
WECO offers a wide variety of screw connectors for printed circuit boards. It includes the use of an elevator-style clamping mechanism that provides great resistance to loosening due to vibration in the most demanding of applications. Standard screws are made of steel and have a metric thread; they are yellow-green zinc chromate coated or passivated, steel.

Screwless
WECO has introduced a family of screwless terminal blocks for printed circuit boards; they are a low cost, time and labor saving, and provide a reliable connection for solid or stranded copper wires. Originally designed for the lighting ballast industry, screwless terminal blocks can also be used for any application which requires fast and easy wire termination. The design also makes these products suitable for an automatic insertion process.

Dovetail
The dovetail system allows the blocks to be assembled together in multiples of 2 and 3 to provide the designer with the needed number of positions while maintaining center-to-center spacing. The dovetail system greatly reduces inventory needs and speeds up delivery.

Marking
WECO offers both consecutive numbering (-CN) and special markings (-SM) designed to meet almost any special marking requirement. Most of our markings use the hot stamped process for long life and high visibility. We also offer pre-printed or blank self-adhesive marking strips

Longer PCB Pins
Typical of WECO's flexible approach is the availability of longer PCB pins; many blocks are available with pins up to 75 mm (3 in.) long to provide the designer with a variety of choices to solve problems involving extra thick circuit boards or interconnect problems using daughterboard designs.

Plating
WECO designs and produces a multitude of metal components for use in our wide variety of products. Metals such as brass, copper, steel, stainless steel, and other alloys are used to produce terminal bodies, screws, wire protectors, jumpers, solder pins, and other components. Plating options include tin, nickel, silver, and gold.

Deppluggable
Our Conecta system brings versatility and reliability to making connections between PCB and electronic or electrical components. A large selection of headers and plugs gives design flexibility. The design includes a latching mechanism to prevent accidental separation of the plug and header due to the effect of vibration while allowing easy disconnection when required. The plug uses an elevator clamping mechanism, which uses a captive screw to make the plug able to withstand vibration without loosening the wire. This type of clamping also allows for almost unlimited wire insertion/removal cycles, especially useful for prototyping and servicing needs.

SMarTconn
WECO is providing surface mount compatible connectors designed for a large variety of SMT (Surface Mount Technology) applications. SMarTconn products are engineered to meet your material, robustness, mounting, packaging and production requirements. In addition to our customer design capabilities, our existing product line consists of versions with flat leads, planar adaptable terminal bodies, through-hole reflow connectors and pinstrips. WECO also introduced a unique retention device that fully secures the connector to the PCB and significantly reduces the stress on solder joints.

Series 300-P
WECO has new high power connectors (600 V) for printed circuit boards These screw terminal strips are used for connecting stripped, unterminated, stranded or solid copper wires. All 300-P products, available from 1 to 12 poles, have solid solder pins for connecting to the printed circuit board. The screws are captive and are backed-out and ready for wiring. All metal parts above the PCB are completely recessed in the flexible polyamide molding. This dead-front design (also called "finger-safe") ensures safety and prevents short-circuiting. The product design is highly vibration resistant.

Screw Connectors

Screwless

Dovetail

Marking

Longer PCB Pins

Plating

Deppluggable

SMarTconn

Series 300-P

Pick-and-Place **Automation Service**

About ten year ago, electronic components had wires that went through the printed circuit board and then were soldered on underneath. Today the components sit on top of the board and are held in place by solder paste which is heated by lamps and, as it melts, bonds with the component. In those bygone days, each component was placed on the board by hand, nowadays the components are stored in tape reels and placed by robot.

The frontline solution provided for WECO's clients is the Regional Sales Manager, who works with the design and purchasing professionals of the company in determining the specifications and functionality required. In turn, the Sales Manager works with one of WECO's Design Engineers to provide the client with computerized images of the end product, its dimensions, specifications and cost.

Surface Mount technology is what allows manufacturers to make electronic consumer items always smaller, by reducing the amount of space taken up by the components. WECO's innovative solution is to provide the client with a surface mount pinstrip. The pinstrip is packaged and shipped in reels so that the client can mount the product on an automatic pick-and-place machine for the population of the circuit board.

Pick-and-place automation helps the client to deal promptly with high volumes, and speeds up production schedules. Most of WECO's surface mount connectors (SMarTconn line) are equipped with pick-and-place devices making the family adaptable to printed circuit board automation/ robotic assembly processes.

The pick-and-place automation is stable enough to be able to stay in place and remain straight until the soldering process fixed the contact. This standard method of delivery has been easily integrated into standard pure surface mount assembly lines. WECO follows EIA-481-1 Standard to comply with the industry international standardization.

WECO provides innovative solutions to all our clients' needs, moving the company upstream in the process of adding value to our products and services.

Pocket feeder

Tape and Reel

Surface Mount Pinstrip

Quick WEB reference for plug-in connectors

* This quick reference list is a partial overview of our pluggable assemblies. More combination can be find in our product pages.

3.5 mm spacing
Series 93-FL
Plug www.weco.ca/products/**930-FL(-DS)**
Pinstrip www.weco.ca/products/**931-SLS**
or **931-FST**

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3.5 mm spacing
Series 93-FL
Plug www.weco.ca/products/**930-HFL(-DS)**
Header www.weco.ca/products/**931-HSL**
or **930-HSL**

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5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-FL-DS**
Pinstrip www.weco.ca/products/**950-SLS**
or **971-SLK** or **971-SLS** or **971-SLW**

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5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-GFL-DS**
Pinstrip www.weco.ca/products/**971-SLK**

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5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-NLFL-DS**
Pinstrip www.weco.ca/products/**971-SLS**

reference *page* 24

5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-NAF-DS**
Pinstrip www.weco.ca/products/**971-SLW**

---

reference *page* 24

5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-RFL-DS**
Pinstrip www.weco.ca/products/**971-SLK**

reference *page* 24

5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**954-NLFL-DS**
Pinstrip www.weco.ca/products/**971-SLK**

reference *page* 24

5.0 mm spacing
Series 95-FL
Plug www.weco.ca/products/**950-NLFL-X2-DS**
Pinstrip www.weco.ca/products/**971-SLW**

5.0 mm or 0.2 in spacing
Series SV/FB
Plug www.weco.ca/products/**940-SV(-DS)**
or **950-SV (-DS)** or **960-SV (-DS)** or **970-SV (-DS)**
Socket www.weco.ca/products/**940-FB**
or **950-FB** or **960-FB** or **970-FB**

5.0 mm or 0.2 in spacing
Series SV/FB
Plug www.weco.ca/products/**941-SV(-DS)**
or **951-SV (-DS)** or **961-SV (-DS)** or **971-SV (-DS)**
Socket www.weco.ca/products/**941-FB**
or **951-FB** or **961-FB** or **971-FB**

5.0 mm spacing
Series SV/FB
Plug www.weco.ca/products/**951-SV(-DS)**
or **971-SV(-DS)**
Socket www.weco.ca/products/**974-FB**

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Quick WEB reference for plug-in connectors

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5.0 mm spacing
Series SV/FB
Plug www.weco.ca/products/**971-FBS(-DS)**
Socket www.weco.ca/products/**950-SVG(-DS)**

reference page 24

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**970-FBW(-DS)**
Pinstrip www.weco.ca/products/**971-SLS**

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**970-NFBW(-DS)**
Header www.weco.ca/products/**971-FBWP**

---

reference page 24

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**971-FBS(-DS)**
Header www.weco.ca/products/**971-FBSP**

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**971-KRFBS(-DS)**
Header www.weco.ca/products/**970-KA**

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**971-KRFBS(-DS)**
Header www.weco.ca/products/**970-KE**

5.0 mm spacing
Series 97-FBW, 97-FBS and 97-K
Plug www.weco.ca/products/**971-KRFBS(-DS)**
Header www.weco.ca/products/**971-KS**

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-M-211**

reference page 25

3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-M-221**

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-V-211**

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-P-211**

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-P-221**

Quick WEB reference for plug-in connectors

* This quick reference list is a partial overview of our pluggable assemblies. More combination can be find in our product pages.

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-S-211**

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3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-111**
Header www.weco.ca/products/**110-S-221**

3.5 mm spacing
Series 11
Plug www.weco.ca/products/**110-A-115**
Header www.weco.ca/products/**110-M-215**
(All 110 versions available with locking flanges)

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3.5 mm spacing
Series 11
Card edge connector
www.weco.ca/products/**110-AP-211**

reference page 28

5.0 mm, 7.5 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-A-111**
or **121-A-111** or **122-A-111**
Header www.weco.ca/products/**120-M-211**
or **121-M-211** or **122-M-211**

reference page 29

5.0 mm, 7.5 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-D-111**
or **121-D-111** or **122-D-111**
Header www.weco.ca/products/**120-M-221**
or **121-M-221** or **122-M-221**

---

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5.0 mm, 7.5 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-D-121**
or **121-D-121** or **122-D-121**
Header www.weco.ca/products/**120-M-221**
or **121-M-221** or **122-M-221**

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0.2 in. spacing
Series 12
Plug www.weco.ca/products/**121-C-111**
Header www.weco.ca/products/**121-M-221**

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5.0 mm spacing
Series 12
Plug www.weco.ca/products/**120-A-111**
Header www.weco.ca/products/**120-M-217**

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5.0 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-D-111**
or **120-A-111** or **121-D-111** or **121-A-111**
Header www.weco.ca/products/**120-M-263**
or **120-M-261** or **121-M-261** or **121-M-263**

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5.0 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-A-111**
or **121-A-111**
Header www.weco.ca/products/**120-M-253**
or **120-M-251** or **121-M-251** or **121-M-253**

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5.0 mm or 0.2 in. spacing
Series 12
Plug www.weco.ca/products/**120-D-111**
or **121-D-111**
Header www.weco.ca/products/**120-M-291**
or **121-M-181**

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Quick WEB reference for plug-in connectors

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5.0 mm spacing
Series 12
Plug www.weco.ca/products/**120-A-115**
Header www.weco.ca/products/**120-M-255**

5.0 mm spacing
Series 12
Plug www.weco.ca/products/**120-D-125**
Header www.weco.ca/products/**120-M-265**

5.0 mm spacing
Series 12
Plug www.weco.ca/products/**120-A-115**
Header www.weco.ca/products/**120-M-285**

5.0 mm spacing
Series 13
Card edge connector
www.weco.ca/products/**130-P**

6.73 mm or 10.0 mm spacing
Series 37
Plug www.weco.ca/products/**374-STFB(-DS)** or **377-STFB (-DS)**
Mating Post www.weco.ca/products/**374-STG** or **377-STG**

10.0 mm spacing
Series 322
Plug www.weco.ca/products/**322-SVG(-DS)**
Socket www.weco.ca/products/**322-FBG**

8.0 mm spacing
Series 300-S
Plug www.weco.ca/products/**302-NSV(-DS)**
Socket www.weco.ca/products/**302-NFB(-DS)**

8.0 mm spacing
Series 300-S
Plug www.weco.ca/products/**302-NSLW(-HDS)**
Socket www.weco.ca/products/**302-NFLW-DS**

8.0 mm spacing
Series 300-S
Plug www.weco.ca/products/**302-NSLP(-DS)**
Socket www.weco.ca/products/**302-NFLP-DS**

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10.0 mm spacing
Series 300-S
Plug www.weco.ca/products/**322-SVW(-DS)**
Socket www.weco.ca/products/**323-FBW(-DS)**

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10.0 mm spacing
Series 300-S
Plug www.weco.ca/products/**322-SVW(-DS)**
Socket www.weco.ca/products/**323-PHFBW(-DS)**

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5.0 mm spacing

Plug www.weco.ca/products/**971-FBS(-DS)**
Socket www.weco.ca/products/**951-B-SV(-DS)**

Terminal **Blocks**

for printed circuit boards

WECO prides itself on being a major supplier in the sale of printed circuit board terminal blocks in the North American market. Our attention to custom design has made us a trusted presence in the day to day operations of the electronics industry. Our representatives and distributors can meet all your terminal block application needs.

As always, WECO offers a rich menu of options. We can electroplate the current carrying metal parts of our terminal blocks with precious metals such as gold or silver. WECO is unsurpassed in its ability to provide high quality hot-stamped markings to suit your needs. Our blocks are designed to use the most suitable clamping mechanisms in our screw terminals.

The two-part header and plug series provide the much needed ability to effect repairs quickly and efficiently in the field whenever some component or subassembly needs replacement. As a cautionary note to our customers, WECO strongly recommends the use of wire protectors (the -DS option) to provide a reliable, long-lasting connection and to prevent damage whenever stranded wires are used.

Remember that WECO designs all of its products according to VDE requirements and has obtained approval from many international rating agencies; the UL-recognized and CSA certified ratings are especially important to our largest trading area. But approval data can vary between different countries and rating agencies; please refer to each catalog page where UL and CSA specifications are shown.

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Series 93

Types 930-T (-DS)

3.5 mm spacing • 2 and 3 poles

Dovetail Interlocking Feature

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) *L = No. of Poles x Center to Center Spacing*

DESCRIPTION

• **Dovetail version** • **Low profile** • **Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.)
Wire Stripping length: 6 mm (0.25 in.)
Nominal Cross Section: 1 mm² (1550 mils²)
Recommended Hole Ø in PCB: 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	7	300	26-16	B,C	max. 2.0 lbfin.
File No.: LR24322	CSA	7	150	26-16	B,E	max. 0.2 Nm

DS version is CSA certified for 26-18 AWG.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey

TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	33%

Terminal Body: Tin plated copper alloy
Wire Protector: nickel silver
Screw: yellow chromate passivated, zinc plated, steel, M2
Solder Pin: tin plated copper alloy, Ø 0.9 mm (0.035 in.)

ACCESSORIES

• BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 and 03		OPTIONS: CN, SM, G05, G30, S30
930-T		/		-	

■ **www.weco.ca/products/930-T (-DS)**

Series 95

Types 950 (-DS)

5 mm spacing • 2 to 32 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) *L = No. of Poles x Center to Center Spacing*

DESCRIPTION

• **Solid version** • **Low profile** • **Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Wire Stripping length: 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	6	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	15	300	26-12	B	max. 0.4 Nm

UL: 15 A for factory wiring only.
Version DS is CSA certified for 26-14 AWG.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

Self extinguishing to UL 94, V-0, grey

		2 to 8 pole	9 to 32 pole
MOLDING:	**2 to 8 pole:** Polyamide		
	9 to 32 pole: Polyamide (glass fiber reinforced)		
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)	200°C (392°F)
	Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600	CTI > 175
	Oxygen Index Rating:	32%	33%

Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2.6
Solder Pin: tin plated copper alloy, Ø 1.0 mm (0.04 in.)

ACCESSORIES

• BST Self Adhesive Marking Strips. Consecutively numbered.
• Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
XXMM: *Longer Solder Pins up to 75 mm (3 in.), XX = protruding length of pins, in millimeters*
(Plated components: terminal body)
Version with 10 mm spacing, please consult factory.

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 to 32		OPTIONS: CN, SM, BS, PS, G05, G30, S30, XXMM
950		/		-	

■ **www.weco.ca/products/950 (-DS)**

Series 97

Types 970 (-DS)

5 mm spacing • 2 to 32 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 1 mm*

DESCRIPTION

- **Solid version • Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6.5 mm (0.26 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	26-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	22-10	B,D,E	max. 0.51 Nm

Version DS is CSA certified for 26-10 AWG.
UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

		2 to 8 pole	9 to 32 pole
MOLDING:	Self extinguishing to UL 94, V-0, grey		
	2 to 8 pole: Polyamide		
	9 to 32 pole: Polyamide (glass fiber reinforced)		
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)	200°C (392°F)
	Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600	CTI > 175
	Oxygen Index Rating:	32%	33%

Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: tin plated copper alloy, Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.
- Jumper, Type 970-J2.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
WG: *Wire Guide*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
XXMM: *Longer Solder Pins up to 75 mm (3 in.), XX = protruding length of pins, in millimeters (Plated components: terminal body)*
Version with 10 mm spacing, please consult factory.

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 to 32		OPTIONS: CN, SM, PS, WG, G05, G30, S30, XXMM
970		/		-	

■ **www.weco.ca/products/970 (-DS)**

Series 99

Type 990-DS

5 mm spacing • 2 to 28 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	15	300	22-14	B,C	max. 4.5 lbfin.
File No.: LR24322	CSA	15	150	22-14	B,E	max. 0.51 Nm

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING:	Polyamide, self extinguishing to UL 94, V-2, black	
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	25%

Terminal Body: tin plated copper alloy
Wire Protector: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: tin plated copper alloy, Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
XXMM: *Longer Solder Pins up to 75 mm (3 in.), XX = protruding length of pins, in millimeters (Plated components: terminal body)*
Version with 10 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 28		OPTIONS: CN, SM, G05, G30, S30, XXMM
990-DS/		-	

■ **www.weco.ca/products/990-DS**

Series 21 Micro-Lift

Type 210-A-111

3.5 mm spacing • 2 to 24 poles

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Low profile • Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.)
Wire Stripping Length: 5.5 mm (0.216 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	30-16	B	max. 2.0 lbfin.
File No.: LR24322	CSA	10	300	30-16	B	max 0.22 Nm

MATERIAL

MOLDING: PBT, self extinguishing to UL 94, V-0, gray
TEMPERATURE LIMITS: **Short time:** 200°C (392°F)
Continuous: RTI 75°C (118°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 175
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: tin plated copper alloy, M2
Solder Pin: 0.9 x 0.5 mm (0.035 x 0.02 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: G05, G30, S30, CN, SM
210-A-111/		-	

■ **www.weco.ca/products/210-A-111**

Series 21 Micro-Lift

Type 210-A-121

3.5 mm spacing • 2 to 24 poles

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Low profile • Wire entrance perpendicular to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.)
Wire Stripping Length: 5.5 mm (0.216 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	30-16	B	max. 2.0 lbfin.
File No.: LR24322	CSA	10	300	30-16	B	max 0.22 Nm

MATERIAL

MOLDING: PBT, self extinguishing to UL 94, V-0, gray
TEMPERATURE LIMITS: **Short time:** 200°C (392°F)
Continuous: RTI 75°C (118°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 175
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: tin plated copper alloy, M2
Solder Pin: tin plated copper alloy, 0.9 x 0.5 mm (0.035 x 0.02 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: G05, G30, S30, CN, SM
210-A-121/		-	

■ **www.weco.ca/products/210-A-121**

Series 14 Mini-Lift

Type 140-A-111

5 mm spacing • 2 to 24 poles

Dovetail Interlocking Feature

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Wire Stripping length: 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	30-14	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	30-14	B	max. 0.51 Nm

UL: 20A range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: 0.9 mm x 0.5 mm (0.04 in. x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, G05, G30, S30
140-A-111/		-	

■ **www.weco.ca/products/140-A-111**

Series 14 Mini-Lift

Type 141-A-111

0.2 in. spacing • 2 and 3 poles

Dovetail Interlocking Feature

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 5.08 mm (0.200 in.)
Wire Stripping length: 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	30-14	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	30-14	B	max. 0.51 Nm

UL: 20A range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: 0.9 mm x 0.5 mm (0.04 in. x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	POLES: 02 and 03		OPTIONS: CN, SM, BS, G05, G30, S30
141-A-111/		-	

■ **www.weco.ca/products/141-A-111**

Series 14 Midi-Lift

Type 145-A-111

5 mm spacing • 2 to 24 poles

Dovetail Interlocking Feature

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Wire Stripping Length: 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)
Recommended Hole Ø in PCB: 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	26-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.51 Nm

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, G05, G30, S30
145-A-111/		-	

■ **www.weco.ca/products/145-A-111**

Series 14 Midi-Lift

Type 146-A-111

0.2 in. spacing • 2 to 24 poles

Dovetail Interlocking Feature

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance parallel to PC Board**
- Elevator-style clamping mechanism

TECHNICAL DATA

Center to Center Spacing: 5.08 mm (0.200 in.)
Wire Stripping Length: 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)
Recommended Hole Ø in PCB: 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	26-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.51 Nm

UL: 26-24 AWG range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, G05, G30, S30
146-A-111/		-	

■ **www.weco.ca/products/146-A-111**

Series 15 Multi-Lift

Type 150-C-111

5 mm spacing • 2 and 3 poles

Test Holes

Dovetail Interlocking Feature

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance at 45° angle to PC Board**
- With test holes
- Elevator-style clamping mechanism

Can be installed anywhere on PCB without wires or screws interfering with the other components.

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 8 mm (0.31 in.)
Nominal Cross Section: 2 x 2.5 mm² (2 x 3874 mils²) solid wire
1 x 4 mm² (1 x 6199 mils²) stranded wire
Recommended Hole Ø in PCB: 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	26-10	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	20	300	26-10	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	POLES: 02 and 03		OPTIONS: CN, SM, BS, G05, G30, S30
150-C-111/		**-**	

■ **www.weco.ca/products/150-C-111**

Series 15 Multi-Lift

Type 152-A-111 /-211

7.5 mm spacing • 2 and 3 poles

Test Holes

Dovetail Interlocking Feature

Elevator Style Clamping

152-A-111 *152-A-211*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Dovetail version • Wire entrance parallel to PC Board**
- With test holes
- Elevator-style clamping mechanism

152-A-111: Ø 2.3 mm test holes
152-A-211: test slots (opened back, metal part exposed)

TECHNICAL DATA

Center to Center Spacing: 7.50 mm (0.295 in.) **Wire Stripping length:** 8 mm (0.31 in.)
Nominal Cross Section: 2 x 2.5 mm² (2 x 3874 mils²) solid wire
1 x 4 mm² (1 x 6199 mils²) stranded wire
Recommended Hole Ø in PCB: 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	22-10	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	20	300	26-10	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Solder Pin and Pressure Plate: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin and pressure plate)

HOW TO ORDER

	TEST ENTRY: test holes: 1 test slots: 2	POLES: 02 and 03		OPTIONS: CN, SM, BS, G05, G30, S30
152-A-		**11/**	**-**	

■ **www.weco.ca/products/152-A-111 /-211**

Series 18

Type 180-A-111

5 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) + 2.5 mm*

DESCRIPTION

- **Horizontal version • Wire entrance parallel to PC Board**
- 2 PCB Pins per pole
- Screw and wire entrance on the same face

Excellent for installation within an enclosure with access to wire entry and screw from the outside

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 9 mm (0.35 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	15	300	26-14	B,C,D	max. 3.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.4 Nm

UL: 26-12 AWG range for stranded wiring only
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Clamp and Pressure Plate: yellow chromate passivated, zinc plated, steel
Internal Bus with Solder Pins: tin plated copper
Screw: yellow chromate passivated, zinc plated, steel, M2.5
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: internal bus)

HOW TO ORDER

	POLES: 01 to 12		OPTIONS: G05, G30, S30
180-A-111/		-	

www.weco.ca/products/180-A-111

Series 18

Type 181-A-111

0.2 in. spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) + 2.5 mm*

DESCRIPTION

- **Horizontal version • Wire entrance parallel to PC Board**
- 2 PCB Pins per pole
- Screw and wire entrance on the same face

Excellent for installation within an enclosure with access to wire entry and screw from the outside

TECHNICAL DATA

Center to Center Spacing: 5.08 mm (0.200 in.) **Wire Stripping length:** 9 mm (0.35 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	15	300	26-14	B,C,D	max. 3.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.4 Nm

UL: 26-12 AWG range for stranded wiring only
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Clamp and Pressure Plate: yellow chromate passivated, zinc plated, steel
Internal Bus with Solder Pins: tin plated copper
Screw: yellow chromate passivated, zinc plated, steel, M2.5
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: internal bus)

HOW TO ORDER

	POLES: 01 to 12		OPTIONS: G05, G30, S30
181-A-111/		-	

www.weco.ca/products/181-A-111

Series 18

Type 182-A-111

7.5 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Horizontal version • Wire entrance parallel to PC Board**
- 2 PCB Pins per pole
- Screw and wire entrance on the same face

Excellent for installation within an enclosure with access to wire entry and screw from the outside

TECHNICAL DATA

Center to Center Spacing: 7.5 mm (0.295 in.) **Wire Stripping length:** 9 mm (0.35 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	15	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.4 Nm

UL: 26-12 AWG range for stranded wiring only
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Clamp and Pressure Plate: yellow chromate passivated, zinc plated, steel
Internal Bus with Solder Pins: tin plated copper
Screw: yellow chromate passivated, zinc plated, steel, M2.5
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: internal bus)

HOW TO ORDER

	POLES: 01 to 12		OPTIONS: G05, G30, S30
182-A-111/		-	

■ **www.weco.ca/products/182-A-111**

Series 18

Type 183-A-111

0.3 in. spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Horizontal version • Wire entrance parallel to PC Board**
- 2 PCB Pins per pole
- Screw and wire entrance on the same face

Excellent for installation within an enclosure with access to wire entry and screw from the outside

TECHNICAL DATA

Center to Center Spacing: 7.62 mm (0.300 in.) **Wire Stripping length:** 9 mm (0.35 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	15	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.4 Nm

UL: 26-12 AWG range for stranded wiring only
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Clamp and Pressure Plate: yellow chromate passivated, zinc plated, steel
Internal Bus with Solder Pins: tin plated copper
Screw: yellow chromate passivated, zinc plated, steel, M2.5
Solder Pin: Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: internal bus)

HOW TO ORDER

	POLES: 01 to 12		OPTIONS: G05, G30, S30
183-A-111/		-	

■ **www.weco.ca/products/183-A-111**

Series 300-P

Types 323-P (-DS)

10 mm spacing • 1 to 12 poles

L = Nr. of Poles x Center to Center Spacing - 3.5 mm

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*

Series 300-P is designed to allow larger conductors and current loads to connect to printed circuit boards than standard terminal blocks. These are larger versions of the 302-G and 322-G blocks, which are modified versions of the Section C WECO panel/chassis mounted terminal strips.

These screw terminal strips are used for connecting stripped, stranded or solid copper wires. Each strip has 12 circuits and can easily be field cut to the required number of poles. They can also be ordered factory-cut in any requested pole number.

Each pole has a solid solder pin for connecting to the printed circuit board. The screws are captive and are backed-out and ready for wiring. Each circuit of the terminal strips can have a wire protector to prevent damage to the wire from the turning screw; the wire protector is a thin copper alloy plate placed between screw and wire. All metal parts above the PCB are well recessed in the polyamide molding. This finger-safe type of design ensures safety and prevents accidental short-circuits.

Each product has a "How To Order" area as well as a complete listing of UL and CSA approval specifications, available options and accessories.

DESCRIPTION

- **Wire entrance parallel to PC Board.**

APPLICATION

This product is used when larger wires for high amperages need to be connected to PCB.

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)
Wire Stripping length: 6 mm (0.25 in.)
Recommended Hole Ø in PCB: 3.5 mm (0.14 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	30	300	22-10	B,C	max. 4.5 lbfin.
	CSA	30	300	22-10	B,C,D,E	max. 0.51 Nm

UL and CSA approvals pending. 323-P-DS is UL approved.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, white

TEMPERATURE LIMITS:
- **Short time:** 140°C (284°F)
- **Continuous:** RTI 105°C (221°F)
- **Low limit:** -40°C (-40°F)
- **Comparative Tracking Index:** CTI > 600
- **Oxygen Index Rating:** 33%

Terminal Body: nickel plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: tin plated copper alloy, 3.0 mm (0.12 in.)

ACCESSORIES

- BST Marking Strips.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
323-P		/		-	

WECO®

■ **www.weco.ca/products/323-P (-DS)**

Series 300-P

Types 324-P (-DS)

11.5 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Wire entrance parallel to PC Board.**

APPLICATION

This product is used when larger wires for high amperages need to be connected to PCB.

TECHNICAL DATA

Center to Center Spacing: 11.5 mm (0.453 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 6 mm² (9298 mils²) **Recommended Hole Ø in PCB:** 4.0 mm (0.16 in.)

APPROVAL INFORMATION

Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
UL	35	300	14-8	B,C,D	max. 7.0 lbfin.
CSA	35	300	14-8	B,C,D,E	max. 0.8 Nm

UL and CSA approvals pending.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3.5
Solder Pin: tin plated copper alloy, 3.5 mm (0.14 in.)

ACCESSORIES

- BST Marking Strips.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
324-P		/		-	

■ **www.weco.ca/products/324-P (-DS)**

Series 300-P

Types 327-P (-FU) (-DS)

14.5 mm spacing • 1 to 12 poles

327-P-DS *327-P-FU-DS*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*

DESCRIPTION

- **Wire entrance parallel to PC Board**
- 327-P-FU (-DS): raised base.

APPLICATION

This product is used when larger wires for high amperages need to be connected to PCB.

TECHNICAL DATA

Center to Center Spacing: 14.5 mm (0.571 in.) **Wire Stripping length:** 9 mm (0.35 in.)
Nominal Cross Section: 16 mm² (24796 mils²) **Recommended Hole Ø in PCB:** 5.5 mm (0.22 in.)

APPROVAL INFORMATION

Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
UL	65	600	14-6	B,C	max. 16.0 lbfin.
CSA	65	600	14-6	B,C,D,E	max. 1.81 Nm

327-P (-DS) is UL and CSA pending. 327-P-FU (-DS) is UL and CSA approved as stated above. Version 327-P-FU range for 14-4 AWG

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector: stainless steel
Screw: yellow chromate passivated, zinc plated, steel, M5
Solder Pin: tin plated copper alloy, 5.0 mm (0.20 in.)

ACCESSORIES

- BST Marking Strips.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	RAISED BASE: with: - FU	WIRE PROTECTOR: with: - DS	POLES: 01 to 12		OPTIONS: CN, SM, PS, G05, G30, S30
327-P			/	-	

■ **www.weco.ca/products/327-P (-FU) (-DS)**

Series 93-FL

Types 930-HFL (-DS)

3.5 mm spacing • 3 poles

930-HFL (-DS)

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*

DESCRIPTION

These products were created for the broadcasting and video production industries but can be used in all applications where a small wire gauge is needed. Series 930-HFL features a handle to simplify vertical in-line insertion and removal and is designed to provide strain relief for the terminated wires. The plug and header are designed to prevent accidental separation of the two parts.
Horizontal and vertical plug-in versions are available, both versions feature 3 poles and 3.5 mm center to center spacing.

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 930-HSL
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 931-HSL

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Wire Stripping length:** 5 mm (0.20 in.)
Nominal Cross Section: 0.75 mm² (1162 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	6	300	28-18	B,C	max. 2.0 lbfin.
File No.: LR24322	CSA	6	300	28-18	B	max. 0.2 Nm

DS version is CSA certified for 28-20 AWG.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 200°C (390°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 31%
Terminal Body: nickel plated copper alloy
Wire Protector: nickel silver
Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- LST Single Pins.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS	OPTIONS: SM, G05, G30, S30
930-HFL	**/03-**	

■ **www.weco.ca/products/930-HFL (-DS)**

Series 93-FL

Types 930 / 931-HSL

3.5 mm spacing • 3 poles

930-HSL / 03

931-HSL / 03

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*

DESCRIPTION

These products were created for the broadcasting and video production industries but can be used in all applications where a small wire gauge is needed. The plug and header are designed to prevent accidental separation of the two parts.
Horizontal and vertical plug-in versions are available, both versions feature 3 poles and 3.5 mm center to center spacing.

- **Header**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 930-HFL (-DS)
  (for 930-HSL only)
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 930-HFL (-DS)
  (for 931-HSL only)

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	6	300	B,C
File No.: LR24322	CSA	6	300	B

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 200°C (390°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 31%
Solder Pin: tin plated copper alloy, 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- LST Single Pins.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)

HOW TO ORDER

	WIRE DIRECTION: horizontal: 0 vertical: 1	OPTIONS: G05, G30, S30
93	**-HSL/03-**	

■ **www.weco.ca/products/930 / 931-HSL**

Series 95-FL

Type 950-FL-DS

5 mm spacing • 2 to 24 poles

950-FL-DS

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug • Solid version**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 971-SLK /-SLS /-SLW
- Plug-In Direction Parallel to PCB and Wire Entrance Perpendicular to PCB when plugged with 950-SLS

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	10	300	26-14	B,D,E	max. 0.4 Nm

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

Self extinguishing to UL 94, V-0, grey

		2 to 12 pole	13 to 24 pole
MOLDING:	**2 to 12 pole:** Polyamide		
	13 to 24 pole: Polyamide (glass fiber reinforced)		
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)	200°C (392°F)
	Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600	CTI > 175
	Oxygen Index Rating:	32%	33%

Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2.6

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.
- LST Single Pins.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
SLW: *971-SLW Pinstrips assembled to Plug*
(Plated components: wire protector)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, PS, G05, G30, S30, SLW
950-FL-DS/		-	

■ **www.weco.ca/products/950-FL-DS**

Series 95-FL

Type 950-SLS

5 mm spacing • 2 to 24 poles

950-SLS

One possible variation of assembly

Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) -1.5 mm*

DESCRIPTION

- **Pinstrip**
- Plug-In Direction Parallel to PCB and Wire Entrance Perpendicular to PCB when plugged with 950-FL-DS

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Recommended Hole Ø in PCB:** 1.6 mm (0.063 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C
File No.: LR24322	CSA	10	300	B,D,E

MATERIAL

MOLDING: PBT GF, self extinguishing to UL 94, V-0, black

TEMPERATURE LIMITS:	**Short time:**	200°C (392°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 175
	Oxygen Index Rating:	32%

Solder Pin: tin plated copper alloy, solder side: 1 mm (0.04 in.), plug-in side: 1.3 mm (0.052 in.)

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: G05, G30, S30
950-SLS/		-	

■ **www.weco.ca/products/950-SLS**

Series 95-FL

Type 950-NLFL-DS

5 mm spacing • 2 to 12 poles

950-NLFL-DS

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

This two piece connector was designed for the HVAC industry, and allows external wiring to be connected to type 950-NLFL-DS which is mounted to a slot in the base plate by means of a locking foot. The cover is equipped with type 971-SLK pinstrip which is soldered to a printed circuit board. Contact is made when the cover and base plate are assembled.

- **Plug**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 971-SLK /-SLS /-SLW
- With locking foot

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	10	300	26-14	B,D,E	max. 0.4 Nm

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, black
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 32%
Terminal Body: nickel plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2.6

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: wire protector)

HOW TO ORDER

	POLES: 02 to 12		OPTIONS: CN, SM,G05, G30, S30
950-NLFL-DS/		-	

■ **www.weco.ca/products/950-NLFL-DS**

Series 95-FL

Type 950-GFL-DS

5 mm spacing • 2 to 24 poles

950-GFL-DS

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

The design for this plug and pinstrip combination was created for the HVAC industry and allows for the interconnection of two printed circuit boards.

- **Plug**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 971-SLK /-SLS /-SLW
- With solder pin

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-14	B,C	max. 3.5 lbfin.
File No.: LR24322	CSA	10	300	26-14	B,D,E	max. 0.4 Nm

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

Self extinguishing to UL 94, V-0, grey

		2 to 12 pole	13 to 24 pole
MOLDING:	**2 to 12 pole:** Polyamide		
	13 to 24 pole: Polyamide (glass fiber reinforced)		
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)	200°C (392°F)
	Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600	CTI > 175
	Oxygen Index Rating:	32%	32%

Terminal Body: nickel plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2.6
Solder Pin: tin plated copper alloy, Ø 1.0 mm (0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
XXMM: *Longer Solder Pins up to 75 mm (3 in.), XX = protruding length of pins, in millimeters*
(Plated components: wire protector)

HOW TO ORDER

	POLES: 2 to 24		OPTIONS: CN, SM, PS, G05, G30, S30, XXMM
950-GFL-DS/		-	

■ **www.weco.ca/products/950-GFL-DS**

Series 97-FBW, 97-FBS and 97-K

Types 971-FBS (-DS)

5 mm spacing • 2 to 24 poles

971-FBS (-DS)

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 950-SVG (-DS), 951-B-SV (-DS)
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 971-FBSP, 971-SLK /-SLS /-SLW

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6.5 mm (0.26 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	26-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	22-10	B,D,E	max. 0.51 Nm

971-FBS-DS is CSA certified for 26-14 AWG.
UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

Self extinguishing to UL 94, V-0, grey

		2 to 12 pole	13 to 24 pole
MOLDING:	**2 to 12 pole:** Polyamide		
	13 to 24 pole: Polyamide (glass fiber reinforced)		
TEMPERATURE LIMITS:	**Short time:**	140°C (284°F)	200°C (392°F)
	Continuous:	RTI 105°C (221°F)	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600	CTI > 175
	Oxygen Index Rating:	32%	33%

Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Spring Clip: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.
- Jumper, Type 970-J2.
- LST Single Pins.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
WG: *Wire Guide*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 to 24		OPTIONS: CN, SM, PS, WG, G05, G30, S30
971-FBS		/		-	

■ **www.weco.ca/products/971-FBS (-DS)**

Series 97-FBW, 97-FBS and 97-K

Types 971-SLK /-SLS /-SLW

5 mm spacing • 2 to 64 poles

971-SLK, 971-SLS, 971-SLW

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Pinstrip (L) *L = No. of Poles x Center to Center Spacing*
Other options:
In Ø1.10 mm diameter (D),
the following protruding lengths (A) are available: 7.8, 10.3, 11.0, 11.7, 11.9, 12.5, 14.2, 14.7 and 15.7 mm.
In Ø1.15 mm diameter (D),
the following protruding lengths (A) are available: 6.5 and 14.7 mm.
In Ø1.30 mm diameter (D), the following protruding lengths (A) are available:
6.5, 7.2, 7.7, 7.8, 8.5, 10.5, 11.0, 16.5, 19.8, 21.5, 22.0 and 29.0 mm.

DESCRIPTION

- **Pinstrip**
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 971-FBS (-DS)
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 950-FL-DS, 950-TFL-DS, 950-NAF, 950-GFL-DS, 950-NLFL-DS and 970-FBW (-DS)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	20	300	B,D
File No.: LR24322	CSA	10	300	B,D,E

MATERIAL

MOLDING: PBT GF, self extinguishing to UL 94, V-0, black

TEMPERATURE LIMITS:	**Short time:**	200°C (392°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 175
	Oxygen Index Rating:	32%

Solder Pin: tin plated copper alloy, solder side: 1 mm (0.04 in.), plug-in side: 1.3 mm (0.051 in.)

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)
Alternate pin lengths and diameters (Please consult factory for available sizes).

HOW TO ORDER

	BASE WIDTH: 2.7 mm: K, 7 mm: S, 10.4 mm: W		POLES: 02 to 64		OPTIONS: G05, G30, S30
971-SL		/		-	

■ **www.weco.ca/products/971-SLK /-SLS /-SLW**

Series 11

conecta®

Type 110-A-111

3.5 mm spacing • 2 to 24 poles

110-A-111 — One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 110-M-211, 110-P-211 and 110-S-211
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 110-M-221, 110-P-221 and 110-S-221
- Plug-In Direction and Wire Entrance 45° to PCB when plugged with 110-V-211
- Coding keys are available to ensure proper mating

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	8	300	30-16	B,D	max. 1.8 lbfin.
File No.: LR24322	CSA	8	300	30-16	B	max. 0.2 Nm

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: Tin plated copper alloy, M2

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30
110-A-111/		-	

■ www.weco.ca/products/110-A-111

Series 11

conecta®

Type 110-M-211

3.5 mm spacing • 2 to 24 poles

110-M-211 — One assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) + 2.6 mm*

DESCRIPTION

- **Header**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 110-A-111
- Coding keys are available to ensure proper mating

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Recommended Hole Ø in PCB:** 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	8	300	B,D
File No.: LR24322	CSA	8	300	B

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Solder Pin: tin plated copper alloy, 0.8 x 0.8 mm (0.03 x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
17.6MM: *Solder Pin length of 17.6 mm*
(Plated components: solder pin)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30, 17.6MM
110-M-211/		-	

■ www.weco.ca/products/110-M-211

Series 11

conecta®

Type 110-V-211

3.5 mm spacing • 2 to 24 poles

110-V-211 *One assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) + 2.6 mm*

DESCRIPTION

- **Header**
- Plug-In Direction and Wire Entrance 45° to PCB when plugged with 110-A-111
- Coding keys are available to ensure proper mating

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Recommended Hole Ø in PCB:** 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	8	300	B,D
File No.: LR24322	CSA	8	300	B

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey

TEMPERATURE LIMITS:		
	Short time:	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	33%

Solder Pin: tin plated copper alloy, 0.8 x 0.8 mm (0.03 x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

1 2 3 4 5 6

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30
110-V-211/		**-**	

■ **www.weco.ca/products/110-V-211**

Series 11

conecta®

Type 110-P-211

3.5 mm spacing • 4 to 48 poles

110-P-211 *One assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) + 2.6 mm*

DESCRIPTION

- **Header • Double level (rows on same level)**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 110-A-111
- Coding keys are available to ensure proper mating

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Recommended Hole Ø in PCB:** 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	8	300	B,D
File No.: LR24322	CSA	8	300	B

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey

TEMPERATURE LIMITS:		
	Short time:	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	33%

Solder Pin: tin plated copper alloy, 0.8 x 0.8 mm (0.03 x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 04 to 48		OPTIONS: CN, SM, G05, G30, S30
110-P-211/		**-**	

■ **www.weco.ca/products/110-P-211**

Series 11

conecta®

Type 110-S-211

3.5 mm spacing • 4 to 48 poles

110-S-211 *One assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing ÷ 2) + 2.6 mm*

DESCRIPTION

- **Header • Double level (upper row set back from lower row)**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 110-A-111
- Coding keys are available to ensure proper mating

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Recommended Hole Ø in PCB:** 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	8	300	B,D
File No.: LR24322	CSA	8	300	B

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey

TEMPERATURE LIMITS:		
	Short time:	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	33%

Solder Pin: tin plated copper alloy, 0.8 x 0.8 mm (0.03 x 0.03 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: solder pin)
Version with 7 mm spacing, please consult factory.

HOW TO ORDER

	POLES: 04 to 48		OPTIONS: CN, SM, G05, G30, S30
110-S-211/		-	

■ **www.weco.ca/products/110-S-211**

Series 11

conecta®

Type 110-AP-211

3.5 mm spacing • 2 to 12 poles

110-AP-211 *One assembly*

Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

110-AP are provided to be plugged directly onto PCB. Slots must be cut in PCB to accomodate connector contact shroud.

- **Plug • Card Edge connector • Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

Nominal Current (A)
3A when connecting traces on one side of PCB
6A when connecting traces on both sides of PCB
Nominal Voltage : 125 V
Nomimal Wire Size Range: 26-16 AWG
Nominal Screw tightening Torque: recommended max. 0.2 Nm (1.8 lbfin.)
Rated Impulse Withstand Voltage: 2500 V
UL and CSA approvals pending.
International Approvals:

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey

TEMPERATURE LIMITS:		
	Short time:	140°C (284°F)
	Continuous:	RTI 105°C (221°F)
	Low limit:	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 600
	Oxygen Index Rating:	33%

Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: Tin plated copper alloy, M2
Thickness of PCB: Standard 1.6 mm

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)

HOW TO ORDER

	POLES: 02 to 12		OPTIONS: CN, SM, G05, G30, S30
110-AP-211/		-	

■ **www.weco.ca/products/110-AP-211**

Series 12

conecta®

Type 120-A-111

5 mm spacing • 2 to 24 poles

120-A-111

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 120-M-111 /-211, 120-M-311 /-411, 120-M-217, 120-M-181 /-281 and 120-M-151 /-153 /-251 /-253
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 120-M-121 /-221, 120-M-191 /-291, 120-M-161 /-163 /-261 /-263 and 120-M-227

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	10	300	26-12	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: Tin plated copper alloy

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
SRF: *Strain Relief (available for 2 to 8 poles only)*
(Plated components: contact spring)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 10 mm spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, PS, G05, G30, S30, SRF
120-A-111/		**-**	

■ **www.weco.ca/products/120-A-111**

Series 12

conecta®

Types 120-M-121 /-221

5 mm spacing • 2 to 24 poles

120-M-121

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing: - 1.8 mm*

DESCRIPTION

- **Header**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 120-D-111, 120-D-121
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 120-A-111

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,D,E

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
14.5MM: *Solder Pin length of 14.5 mm*
(Plated components: solder pin)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 10 mm spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	SIDEWALLS: without: 1 with: 2	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30, 14.5MM
120-M-		**21/**	**-**	

■ **www.weco.ca/products/120-M-121 /-221**

Series 12

Type 120-D-111

5 mm spacing • 2 to 24 poles

120-D-111

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 120-M-121 /-221, 120-M-227 and 120-M-191 /-291
- Mating tabs in rear

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	10	300	26-12	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 10 mm spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, PS, G05, G30, S30
120-D-111/		-	

■ www.weco.ca/products/120-D-111

Series 12

Type 120-M-227

5 mm spacing • 2 to 22 poles

120-M-227
Screws not included

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

Type 120-M-227 headers are equipped with mounting flanges which provide additional secureness to the printed circuit board.

- **Header**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 120-D-111, 120-D-121
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 120-A-111
- With mounting flanges
- Recommended mounting hardware: M2 cheese head screw (#2-56 fillister head screw)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,D,E

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
14.5MM: *Solder Pin length of 14.5 mm*
(Plated components: solder pin)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 10 mm spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	POLES: 02 to 22		OPTIONS: CN, SM, G05, G30, S30, 14.5MM
120-M-227/		-	

■ www.weco.ca/products/120-M-227

Series 12

conecta®

Type 121-C-111

0.2 in. spacing • 2 to 24 poles

121-C-111

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction Perpendicular to PCB and Wire Entrance 45° to PCB when plugged with 121-M-121 /-221, 121-M-161 /-261 and 121-M-191 /-291

TECHNICAL DATA

Center to Center Spacing: 5.08 mm (0.200 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	10	300	26-12	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 0.4 in. spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, BS, PS, G05, G30, S30
121-C-111/		-	

■ **www.weco.ca/products/121-C-111**

Series 12

conecta®

Types 121-M-121 /-221

0.2 in. spacing • 2 to 24 poles

121-M-121

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Header**
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 121-A-111, 121-F-111 /-211
- Plug-In Direction Perpendicular to PCB and Wire Entrance 45° to PCB when plugged with 121-C-111
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 121-D-111, 121-D-121

TECHNICAL DATA

Center to Center Spacing: 5.08 mm (0.200 in.) **Recommended Hole Ø in PCB:** 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,D,E

International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
14.5MM: *Solder Pin length of 14.5 mm*
(Plated components: solder pin)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.
Voltage rating for 0.4 in. spacing is UL certified for 600 / B,C,D and CSA certified for 600 / D,E.

HOW TO ORDER

	SIDEWALLS: without: 1 with: 2	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30, 14.5MM
121-M-		21/	-	

■ **www.weco.ca/products/121-M-121 /-221**

Series 12

conecta®

Type 122-A-111 (-CCR)

7.5 mm spacing • 2 to 12 poles

122-A-111 — *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) - 0.6 mm*

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 122-M-111/-211
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 122-M-121 /-221

TECHNICAL DATA

Center to Center Spacing: 7.5 mm (0.295 in.)
Wire Stripping length: 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)
Recommended Hole Ø in PCB: 1.4 mm (0.06 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	10	300	26-12	B,C,D,E	max. 0.51 Nm

Voltage ratings for Component Connector Rating (CCR): per UL1977 - 600V, per CSA C22.2 no 158 - 600V / D,E
UL: 24-26 AWG range for factory wiring only.
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS

See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.

HOW TO ORDER

	COMPONENT CONNECTOR RATING: with: - CCR (see approval information for details)	POLES: 02 to 12	OPTIONS: CN, SM, BS, PS, G05, G30, S30
122-A-111	/	-	

■ www.weco.ca/products/122-A-111 (-CCR)

Series 12

conecta®

Types 122-M-121 /-221 (-CCR)

7.5 mm spacing • 2 to 12 poles

122-M-121 — *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= (No. of Poles x Center to Center Spacing) - 1.8 mm*

DESCRIPTION

- **Header**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 122-D-111, 122-D-121
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 122-A-111

TECHNICAL DATA

Center to Center Spacing: 7.5 mm (0.295 in.)
Recommended Hole Ø in PCB: 1.4 mm (0.055 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,C,D,E

Voltage ratings for Component Connector Rating (CCR): per UL1977 - 600V, per CSA C22.2 no 158 - 600V / D,E
International Approvals:
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
14.5MM: *Solder Pin length of 14.5 mm*
(Plated components: solder pin)
Coding keys available to ensure plug-in proper orientation. Sold separately, please consult the accessories section.

HOW TO ORDER

	SIDEWALLS: without: 1 with: 2	COMPONENT CONNECTOR RATING: with: - CCR	POLES: 02 to 12	OPTIONS: CN, SM, PS, G05, G30, S30, 14.5MM
122-M	21	/	-	

■ www.weco.ca/products/122-M-121 /-221 (-CCR)

Series 13

Types 130-A

5 mm spacing • 2 to 12 poles

130-A

One possible variation of assembly

CODING: RAST-5 Standard

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

- **Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 130-K
- Plug-in Direction and Wire Entrance Perpendicular to PCB when plugged with Series 900 and GST-BGS
- For mating with a header

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	26-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	10	300	26-12	B,D,E	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector and Contact Spring: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: contact spring)

HOW TO ORDER

	CODING (RAST-5 STANDARD): see table above		POLES: 02 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
130-A-		/		-	

■ **www.weco.ca/products/130-A**

Series 13

Types 130-K

5 mm spacing • 2 to 12 poles

CODING: RAST-5 Standard

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L = No. of Poles x Center to Center Spacing + 1.8 mm
Distance between extreme pinholes (A)
A = No. of Poles x Center to Center Spacing - 5 mm

DESCRIPTION

- **Header**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 130-A, 130-P
- Interlocking tabs on top

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,D
File No.: LR24322	CSA	10	300	B,D,E

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: PBT, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 200°C (392°F)
Continuous: 130°C (266°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 32%
Solder Pin: tin plated copper alloy, 0.8 x 0.8 mm (0.03 x 0.03 in.)

HOW TO ORDER

	CODING (RAST-5 STANDARD): see table above		POLES: 02 to 12
130-K-		/	

■ **www.weco.ca/products/130-K**

Series 79

Q- CON

Types 797-A-111 (-CCR)

5 mm spacing • 2 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 0.7mm*

DESCRIPTION

Simply by using a screwdriver in the spring release slot, wires may be quickly inserted or removed. The wire-trap style spring contact will insure a solid and reliable connection.

- **Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Wire Stripping length: 7 mm (0.28 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group
File No.: E69841	UL	3	300	30-16	B,D
File No.: LR24322	CSA	3	300	30-16	B,D,E

Voltage ratings for Component Connector Rating (CCR): per UL1977 - 600 / B,D
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, black
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Spring Clip: tin plated steel

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*

HOW TO ORDER

	COMPONENT CONNECTOR RATING: (see approval information for details) with: - CCR		POLES: 02 to 12		OPTIONS: CN, SM
797-A-111		/		-	

■ **www.weco.ca/products/797-A-111 (-CCR)**

Series 79

Q- CON

Types 797-A-121 (-CCR)

5 mm spacing • 2 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) *L = No. of Poles x Center to Center Spacing + 0.7mm*

DESCRIPTION

Simply by using a screwdriver in the spring release slot, wires may be quickly inserted or removed. The wire-trap style spring contact will insure a solid and reliable connection.

- **Wire entrance perpendicular to PC Board**

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)
Wire Stripping length: 7 mm (0.28 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group
File No.: E69841	UL	3	300	30-16	B,D
File No.: LR24322	CSA	3	300	30-16	B,D,E

Voltage ratings for Component Connector Rating (CCR): per UL1977 - 600 / B,D
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, black
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Spring Clip: tin plated steel

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*

HOW TO ORDER

	COMPONENT CONNECTOR RATING: (see approval information for details) with: - CCR		POLES: 02 to 12		OPTIONS: CN, SM
797-A-121		/		-	

■ **www.weco.ca/products/797-A-121 (-CCR)**

WECO is the industry leader in providing surface mount connectors designed to customers' specifications. SMarTconn products are engineered to meet your dimensional, material, mounting, packaging, reliability and cost savings production requirements.

WECO offers two categories of surface mount products: genuine (no holes in printed circuit board to increase the density) and through hole reflow (solder reflow process designed for holes in PCB).

WECO's genuine surface mount connectors have excellent coplanarity performance and consistently meet industrial requirements. One innovation addresses the issue of dynamic adaptation of the electrical contacts towards total coplanarity. With a freedom of movement in both lateral and vertical directions, the planar adaptable contact ensures self-adjustment to the surface of the board compensating the planar variance of the PCB surface or misalignment on the pad. A major advantage of this concept (patent pending) is the elimination of the CTE (coefficient of thermal expansion) mismatch due to the freedom of movement of the individual bodies in the molding. Our existing product line of genuine surface mount and through hole reflow connectors, terminal blocks and pinstrips consist of versions incorporating flat leads, gull wing leads, floating terminal bodies, integrated or removable pick-caps. All these products are meant for ease of installation into automated assembly processes.

(930-T-D-SMD)
This terminal block features an integrated pick area that allows this product to be picked-and-placed without any additional changes to your process. Its floating terminal bodies compensate for irregularities (non planarity and bumps) on the printed circuit board and thus promote high first pass yields and a low rate of open circuits. The same feature eliminates CTE mismatch with the PCB and thus promotes excellent in field reliability and the successful passing of thermal cycling testing.

Flat leads (140-A-524-SMD)
Flat contact leads (also known as gull wings leads) provide a large surface area where screw torque is not transmitted to the solder joint, and integrated solderable retention devices ensure in field reliability in thermal cycling and protect against human factors during in field use.. These solder joints have the strength and the shape required to make a consistently safe and reliable field-proven connection that meet application and regulatory requirements. The elevator-style-clamping mechanism allows an almost unlimited number of connections and disconnections of the wire.

Pinstrips (971-SLK-SMD, 971-SLK-THR)
The patented 971-SLK-SMD (#6,224,399) "nail head" pin design ensures a secure and reliable contact with the printed circuit board. The excellent and robust co-planarity of this pin strip allows it to be successfully manufactured, stored, transported and processed at yields approaching zero defects for this characteristic and its effects. The SMT pinstrip product is designed to work in conjunction with the 950-NLFL-DS screw connector. You have the best of both worlds. The SMD version is pick-and-placeable with no changes to your process. The THR version is through hole for added strength and also pick-and-placeable which is unusual for a through hole (THR) device. It has an integrated pick surface and material performance that promote this.

Through Hole Reflow (930-THR, 950-THR, 970-THR, 120-M-211-THR, 120-M-221-THR)
WECO's THR designs are adapted for easy integration into your processes. Standoffs provide for good convective heat circulation for reliable soldering through the elimination of cold spots and also allow for a visual inspection of the solder joints. The main advantage of through-hole terminal blocks is their reliable mechanical strength. This robustness is particularly important for applications exposed to harsh environments or strong vibrations such as mobile equipment, engine or motor compartments.

All connector moldings consist of a high heat resistant and self-extinguishing thermoplastic material. All SMarTconn products can be supplied in transfer tubes or on carrier tape for use with feeders and dispensers for automated insertion machinery. The majority of the SMarTconn products are equipped with Pick-and-Place devices making the family adaptable to PCBA automation / robotic assembly processes. SMarTconn products are UL and CSA approved and can be approved with any appropriate international standard. A complete listing of approvals specifications may be found on the following pages. Complementary information can also be found on our web site: www.smartconn.com and www.weco.ca.

SMARTCONN

Series SMT

Types 930-T-D-SMD (-DS)

3.5 mm spacing • 2 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

This product has an integrated pick area or can be supply with a removable pick cap.
The floating terminal bodies compensate for irregularities on the printed circuit board and eliminate coplanarity problems.
• **Floating Terminal Body** • **Wire entrance parallel to PCB**

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1 mm² (1550 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	7	150	26-16	B,C	max. 2.0 lbfin.
File No.: LR24322	CSA	7	150	26-16	B	max. 0.22 Nm

MATERIAL

MOLDING: SPS (syndiotactic polystyrene), 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:
Short time: 240°C (464°F)
Continuous: RTI 125°C (257°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 250
Oxygen Index Rating: 28%

Terminal Body: tin plated copper alloy
Wire Protector: nickel silver
Screw: yellow chromate passivated, zinc plated, steel, M2
Average weight: 0.5 gram per pole

OPTIONS

See How to Order. If more than one option is required, please separate each option with a dash (-).

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
PCP: *Removable Pick Cap*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 to 12		OPTIONS: CN, SM, G05, G30, S30, TR, PCP
930-T-D-SMD		/		-	

WECO

www.weco.ca/products/930-T-D-SMD (-DS)

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

Series SMT

Type 140-A-524-SMD

5 mm spacing • 2 to 12 poles

Elevator Style Clamping

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 10 mm*

DESCRIPTION

Flat contact leads provide a large surface area for reliable solder joints. The retention devices provide robust mechanical connections between terminal block and PCB and reaches up to 0.3 mm (0.012 in.) coplanarity. Patent pending.

- **Flat leads • Wire entrance parallel to PCB**
- Typical peel off forces; 30 kg on 6 poles devices (depending on soldering process)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	10	300	30-14	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	30-14	B	max. 0.51 Nm

UL: 20A range for factory wiring only.
Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide 4.6, 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:

Short time:	260°C (500°F)
Continuous:	RTI 105°C (221°F)
Low limit:	-40°C (-40°F)
Comparative Tracking Index:	CTI > 250
Oxygen Index Rating:	37%

Terminal Body: nickel plated copper alloy
Current bar: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3
Retention device: Tin plated copper alloy
Average weight: 1.14 gram per pole

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
PCP: *Removable Pick Cap*
(Plated components: contact spring)

HOW TO ORDER

	POLES: 02 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30, TR, PCP
140-A-524-SMD/		-	

■ **www.weco.ca/products/140-A-524-SMD**

Series SMT

Type 971-SLK-SMD

5 mm spacing • 2 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of poles x Center to Center Spacing ± 0.4 mm*

DESCRIPTION

Patent # 6,224,399 B1

- **Pinstrip**
- Plug-In Direction Perpendicular to PCB when plugged with 950-NAF, 950-NLFL, 958-NLFL, 950-FL-DS
- Excellent coplanarity better that 0.1 mm
- Typical peel off forces; 10 kg on 6 poles devices (depending on soldering process)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)
File No.: E69841	UL	10	300
File No.: LR24322	CSA	10	300

MATERIAL

MOLDING: SPS (syndiotactic polystyrene), 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, white
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:

Short time:	240°C (464°F)
Continuous:	RTI 105°C (221°F)
Low limit:	-40°C (-40°F)
Comparative Tracking Index:	CTI > 250
Oxygen Index Rating:	28%

Solder Pin: tin plated copper alloy, 1 mm (0.04 in.)
Average weight: 0.15 gram per pole
Pick Cap weight: 0.04 gram

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
PCP: *Removable Pick Cap*
(Plated components: solder pin)

HOW TO ORDER

	POLES: 02 to 12		OPTIONS: G05, G30, S30, TR, PCP
971-SLK-SMD/		-	

■ **www.weco.ca/products/971-SLK-SMD**

Series SMT

Types 930-THR (-DS)

3.5 mm spacing • 2 to 12 poles

DESCRIPTION

Standoffs underneath the molding prevent bottom of molding from touching the solder paste and allow for a visual inspection of the solder joints and better air flow during the reflow soldering process.

• **Through Hole Reflow** • **Wire entrance parallel to PC Board**

TECHNICAL DATA

Center to Center Spacing: 3.5 mm (0.138 in) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 1 mm² (1550 mils²) **Recommended Hole Ø in PCB:** 1.2 mm (0.047 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	7	300	26-16	B,C	max. 2.0 lbfin.
File No.: LR24322	CSA	7	300	26-16	B,E	max. 0.2 Nm

DS version is CSA certified for 26-18 AWG

MATERIAL

MOLDING: Polyamide 4.6, 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black.
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:
Short time: 260°C (500°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 250
Oxygen Index Rating: 37%

Terminal Body: tin plated copper alloy
Wire Protector: nickel silver
Screw: yellow chromate passivated, zinc plated, steel, M2
Solder Pin: tin plated copper alloy, Ø 0.9 mm (0.035 in.)

ACCESSORIES

• BST Self Adhesive Marking Strips. Consecutively numbered.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 02 to 12		OPTIONS: CN, SM, G05, G30, S30, TR
930-THR		/		-	

■ **www.weco.ca/products/930-THR (-DS)**

Series SMT

Type 971-SLK-THR

5 mm spacing • 2 to 12 poles

DESCRIPTION

Patent pending

• **Pinstrip**
• Plug-In Direction Perpendicular to PCB when plugged with 950-NAF, 950-NLFL, 958-NLFL, 950-FL-DS

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.)

APPROVAL INFORMATION

Recommended current: 10A, recommended voltage: 300 V

MATERIAL

MOLDING: SPS (syndiotactic polystyrene), 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, white.
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:
Short time: 240°C (464°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 250
Oxygen Index Rating: 28%

Solder Pin: tin plated copper alloy, 1 mm (0.04 in.)
Average weight: 0.16 gram per pole.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
(Plated components: solder pin)

HOW TO ORDER

	POLES: 02 to 12		OPTIONS: G05, G30, S30, TR
971-SLK-THR/			

■ **www.weco.ca/products/971-SLK-THR**

Series SMT

Type 120-M-211-THR

5 mm spacing • 2 to 24 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 0.4 mm*

DESCRIPTION

Standoffs underneath the molding prevent bottom of molding from touching the solder paste and allow for a visual inspection of the solder joints and better air flow during reflow soldering process.

- **Through Hole Reflow**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 120-A-111

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in) **Recommended Hole Ø in PCB:** 1.5 mm (0.059 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,D,E

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide 4.6, 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black.
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:

Short time:	260°C (500°F)
Continuous:	RTI 105°C (221°F)
Low limit:	-40°C (-40°F)
Comparative Tracking Index:	CTI > 250
Oxygen Index Rating:	37%

Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.) (square)
Average weigth: 0.45 gram per pole

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
(Plated components: solder pin)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30, TR
120-M-211-THR/		-	

■ **www.weco.ca/products/120-M-211-THR**

Series SMT

Type 120-M-221-THR

5 mm spacing • 2 to 24 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 0.4 mm*

DESCRIPTION

Standoffs underneath the molding prevent bottom of molding from touching the solder paste and allow for a visual inspection of the solder joints and better air flow during reflow soldering process.

- **Through Hole Reflow**
- Plug-In Direction Perpendicular to PCB and Wire Entrance Parallel to PCB when plugged with 120-D-111, 120-D-121
- Plug-In Direction and Wire Entrance Perpendicular to PCB when plugged with 120-A-111

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in) **Recommended Hole Ø in PCB:** 1.5 mm (0.059 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group
File No.: E69841	UL	10	300	B,C,D
File No.: LR24322	CSA	10	300	B,D,E

Rated Impulse Withstand Voltage: 2500 V

MATERIAL

MOLDING: Polyamide 4.6, 30% GF (glass fiber reinforced), self extinguishing to UL 94, V-0, black.
Material will handle reflow temperatures well without deforming or melting.

TEMPERATURE LIMITS:

Short time:	260°C (500°F)
Continuous:	RTI 105°C (221°F)
Low limit:	-40°C (-40°F)
Comparative Tracking Index:	CTI > 250
Oxygen Index Rating:	37%

Solder Pin: tin plated copper alloy, 1 x 1 mm (0.04 x 0.04 in.) (square)
Average weight: 0.45 gram per pole
Pick Cap weight: 0.31 gram

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
TR: *Tape and Reel Assembly*
PCP: *Removable Pick Cap*
(Plated components: solder pin)

HOW TO ORDER

	POLES: 02 to 24		OPTIONS: CN, SM, G05, G30, S30, TR, PCP
120-M-221-THR/		-	

■ **www.weco.ca/products/120-M-221-THR**

Series 98

Types 982-S /-D /-W

0.375 in. spacing • 2 to 26 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing*

DESCRIPTION

• **Barrier Strip • Wire entrance Parallel to PCB: 982-S and 982-D**
Wire Entrance Perpendicular to PCB: 982-W/
• 1 or 2 PCB Pins per pole

TECHNICAL DATA

Center to Center Spacing: 9.52 mm (0.375 in.) **Wire Stripping length:** 8.5 mm (0.33 in.)
Nominal Cross Section: max. 2 x 2.50 mm² (2 x 3874 mils²)
Recommended Hole Ø in PCB: 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	20-12	B,C	max. 7.0 lbfin.
File No.: LR24322	CSA	20	300	22-12	B,D,E	max. 0.79 Nm

Rated Impulse Withstand Voltage: 4000 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
PCB Pin: tin plated copper alloy, 0.8 x 1.0 mm (0.03 x 0.04 in.)
Screw and Washer: yellow chromate passivated, zinc plated, steel, M3.5

ACCESSORIES

• Covers and BEF Retaining Clips, Series 98-A.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
10MM: *Solder Pin length of 10 mm (0.39 in.)*
MH: *With Mounting holes (for covers)*
CSS: *Combi Sems Screws (Phillips/Slot Drive Screw + Washer)*
(Plated components: terminal body)
10MM for Types 982-S/-D only
MH for using covers on 980, 982, 983

HOW TO ORDER

	WIRE ENTRY:		POLES:		OPTIONS:
	Parallel (1 pin per pole): S **Parallel (2 pins per pole): D** **Perpendicular (1 pin per pole): W**		**02 to 26**		**CN, SM, PS, G05, G30, S30, 10MM, MH, CSS**
982-		/		-	

■ **www.weco.ca/products/982-S /-D /-W**

Series 98

Types 983-US /-UD /-UW

10 mm spacing • 2 to 7 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= Poles x Center to Center Spacing*

DESCRIPTION

The 983-U blocks provide the necessary clearance distances to provide the capacity to handle 600 volts when a design requires more than the usual 300 volts.
These blocks require slots to be cut through the printed circuit board to allow for the extended barriers designed into the base.
PCB slots must measure 2.0 x 25.4 mm (0.079 x 1.000 in.).
• **Barrier Strip • Wire entrance Parallel to PCB (983-US and 983-UD)**
Wire Entrance Perpendicular to PCB: 983-UW
• 1 or 2 PCB Pins per pole

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 8.5 mm (0.33 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²) **Recommended Hole Ø in PCB:** 1.3 mm (0.051 in.)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	600	20-12	B,C	max. 10.0 lbfin.
File No.: LR24322	CSA	20	600	22-10	B,C,D,E	max. 1.13 Nm

Rated Impulse Withstand Voltage: 8000 V

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, black
TEMPERATURE LIMITS: **Short time:** 260°C (500°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 250
Oxygen Index Rating: 37%
Terminal Body: tin plated copper alloy
Screw and Washer: nickel plated steel, M4
PCB Pin: tin plated copper alloy, 0.8 x 1.0 mm (0.03 x 0.04 in.)

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
10MM: *Solder Pin length of 10 mm (0.39 in.)*
CS: *Captive Screws*
(Plated components: terminal body)
10MM for Types 983-US /-UD only

HOW TO ORDER

	WIRE ENTRY:		POLES:		OPTIONS:
	Parallel (1 pin per pole): S **Parallel (2 pins per pole): D** **Perpendicular (1 pin per pole): W**		**02 to 07**		**G05, G30, S30, 10MM, CS**
983-U		/		-	

■ **www.weco.ca/products/983-US /-UD /-UW**

SCREW CONNECTORS FOR PRINTED CIRCUIT BOARDS

Series 93

930 (-DS)	www.weco.ca/products/930 (-DS)
930-T (-DS)	www.weco.ca/products/930-T (-DS)
931 (-DS)	www.weco.ca/products/931 (-DS)
931-T (-DS)	www.weco.ca/products/931-T (-DS)
934 (-DS)	www.weco.ca/products/934 (-DS)
938 (-DS)	www.weco.ca/products/938 (-DS)
938-T (-DS)	www.weco.ca/products/938-T (-DS)

Series 94 and Series 95

940 (-DS)	www.weco.ca/products/940 (-DS)
940-T (-DS)	www.weco.ca/products/940-T (-DS)
941 (-DS)	www.weco.ca/products/941 (-DS)
941-T (-DS)	www.weco.ca/products/941-T (-DS)
950 (-DS)	www.weco.ca/products/950 (-DS)
950-T (-DS)	www.weco.ca/products/950-T (-DS)
951 (-DS)	www.weco.ca/products/951 (-DS)
951-T (-DS)	www.weco.ca/products/951-T (-DS)
951-HG (-DS)	www.weco.ca/products/951-HG (-DS)
951-THG (-DS)	www.weco.ca/products/951-THG (-DS)

Series 96 and Series 97

960 (-DS)	www.weco.ca/products/960 (-DS)
960-T (-DS)	www.weco.ca/products/960-T (-DS)
961 (-DS)	www.weco.ca/products/961 (-DS)
961-T (-DS)	www.weco.ca/products/961-T (-DS)
968 (-DS)	www.weco.ca/products/968 (-DS)
968-T (-DS)	www.weco.ca/products/968-T (-DS)
964-T (-DS)	www.weco.ca/products/964-T (-DS)
968-Y (-DS)	www.weco.ca/products/968-Y (-DS)
968-TY (-DS)	www.weco.ca/products/968-TY (-DS)
970 (-DS)	www.weco.ca/products/970 (-DS)
970-T (-DS)	www.weco.ca/products/970-T (-DS)
970-MP (-DS)	www.weco.ca/products/970-MP (-DS)
970-TMP (-DS)	www.weco.ca/products/970-TMP (-DS)
970-X (-DS)	www.weco.ca/products/970-X (-DS)
970-TX (-DS)	www.weco.ca/products/970-TX (-DS)
970-HEN (-DS)	www.weco.ca/products/970-HEN (-DS)
970-EN (-DS)	www.weco.ca/products/970-EN (-DS)
971 (-DS)	www.weco.ca/products/971 (-DS)
971-T (-DS)	www.weco.ca/products/971-T (-DS)
971-HG (-DS)	www.weco.ca/products/971-HG (-DS)
971-THG (-DS)	www.weco.ca/products/971-THG (-DS)
971-HM (-DS)	www.weco.ca/products/971-HM (-DS)
971-THM (-DS)	www.weco.ca/products/971-THM (-DS)
971-X (-DS)	www.weco.ca/products/971-X (-DS)
971-TX (-DS)	www.weco.ca/products/971-TX (-DS)
974 (-DS)	www.weco.ca/products/974 (-DS)
974-T (-DS)	www.weco.ca/products/974-T (-DS)
976 (-DS)	www.weco.ca/products/976 (-DS)
976-T (-DS)	www.weco.ca/products/976-T (-DS)
977 (-DS)	www.weco.ca/products/977 (-DS)
977-T (-DS)	www.weco.ca/products/977-T (-DS)
977-OP (-DS)	www.weco.ca/products/977-OP (-DS)
977-OPSG (-DS)	www.weco.ca/products/977-OPSG (-DS)
977-THM (-DS)	www.weco.ca/products/977-THM (-DS)
978 (-DS)	www.weco.ca/products/978 (-DS)
978-T (-DS)	www.weco.ca/products/978-T (-DS)
978-MP (-DS)	www.weco.ca/products/978-MP (-DS)
978-TMP (-DS)	www.weco.ca/products/978-TMP (-DS)
978-HENO (-DS)	www.weco.ca/products/978-HENO (-DS)
978-Y (-DS)	www.weco.ca/products/978-Y (-DS)
978-TY (-DS)	www.weco.ca/products/978-TY (-DS)

Series 91

910 (-DS)	www.weco.ca/products/910 (-DS)
910-Y (-DS)	www.weco.ca/products/910-Y (-DS)

Series 99

990-DS	www.weco.ca/products/990-DS
990-FU-DS	www.weco.ca/products/990-FU-DS

Series 210

210-A-111	www.weco.ca/products/210-A-111
210-A-121	www.weco.ca/products/210-A-121

Series 140 and 141 Mini-lift, Series 145 and 146 Midi-lift

140-A-111	www.weco.ca/products/140-A-111
140-A-121	www.weco.ca/products/140-A-121
140-C-111	www.weco.ca/products/140-C-111
140-E-111	www.weco.ca/products/140-E-111
140-B-151	www.weco.ca/products/140-B-151
140-B-153	www.weco.ca/products/140-B-153
140-E-271	www.weco.ca/products/140-E-271
140-E-273	www.weco.ca/products/140-E-273
140-B-111	www.weco.ca/products/140-B-111
140-E-253	www.weco.ca/products/140-E-253
141-A-111	www.weco.ca/products/141-A-111
141-A-121	www.weco.ca/products/141-A-121
141-C-111	www.weco.ca/products/141-C-111
145-A-111	www.weco.ca/products/145-A-111
145-A-121	www.weco.ca/products/145-A-121
145-C-111	www.weco.ca/products/145-C-111
146-A-111	www.weco.ca/products/146-A-111
146-A-121	www.weco.ca/products/146-A-121
146-C-111	www.weco.ca/products/146-C-111

Series 150 Multi-lift

150-A-111	www.weco.ca/products/150-A-111
150-A-121	www.weco.ca/products/150-A-121
150-C-111	www.weco.ca/products/150-C-111
150-B-111	www.weco.ca/products/150-B-111
150-B-151	www.weco.ca/products/150-B-151
150-B-153	www.weco.ca/products/150-B-153
152-A-111	www.weco.ca/products/152-A-111
152-A-211	www.weco.ca/products/152-A-211
152-A-121	www.weco.ca/products/152-A-121
152-A-221	www.weco.ca/products/152-A-221

Series 180

180-A-111	www.weco.ca/products/180-A-111
180-A-121	www.weco.ca/products/180-A-121
181-A-111	www.weco.ca/products/181-A-111
181-A-121	www.weco.ca/products/181-A-121
182-A-111	www.weco.ca/products/182-A-111
182-A-121	www.weco.ca/products/182-A-121
183-A-111	www.weco.ca/products/183-A-111
183-A-121	www.weco.ca/products/183-A-121

Series 300-P

323-P	www.weco.ca/products/323-P
324-P	www.weco.ca/products/324-P
327-P	www.weco.ca/products/327-P
327-P-FU	www.weco.ca/products/327-P-FU

Series 300-G

302-G (-DS)	www.weco.ca/products/302-G (-DS)
322-G (-DS)	www.weco.ca/products/322-G (-DS)

Series 95-LH

950-LH	www.weco.ca/products/950-LH
951-LH	www.weco.ca/products/951-LH

Series 97-LH

970-LH	www.weco.ca/products/970-LH
971-LH	www.weco.ca/products/971-LH

PLUG- IN SCREW CONNECTOR SYSTEMS FOR PRINTED CIRCUIT BOARDS

Series 93-FL and Series 95-FL

930-FL (-DS)	www.weco.ca/products/930-FL (-DS)
930-HFL (-DS)	www.weco.ca/products/930-HFL (-DS)
930-HSL	www.weco.ca/products/930-HSL
931-HSL	www.weco.ca/products/931-HSL
938-FL (-DS)	www.weco.ca/products/938-FL (-DS)
938-HFL (-DS)	www.weco.ca/products/938-HFL (-DS)
931-SLS	www.weco.ca/products/931-SLS
931-FST	www.weco.ca/products/931-FST
950-FL-DS	www.weco.ca/products/950-FL-DS
950-TLF	www.weco.ca/products/950-TLF
950-GFL	www.weco.ca/products/950-GFL
950-NAF	www.weco.ca/products/950-NAF
950-RFL	www.weco.ca/products/950-RFL
950-NLFL-DS	www.weco.ca/products/950-NLFL-DS
950-NLFL-X2-DS	www.weco.ca/products/950-NLFL-X2-DS
954-NLFL-DS	www.weco.ca/products/954-NLFL-DS
958-FL-DS	www.weco.ca/products/958-FL-DS
958-NLFL-DS	www.weco.ca/products/958-NLFL-DS
950-SLS	www.weco.ca/products/950-SLS

Series 94-FB/SV, Series 95-FB/SV and 974-FB

940-FB	www.weco.ca/products/940-FB
940-SV (-DS)	www.weco.ca/products/940-SV (-DS)
941-FB	www.weco.ca/products/941-FB
941-SV (-DS)	www.weco.ca/products/941-SV (-DS)
950-FB	www.weco.ca/products/950-FB
950-SV (-DS)	www.weco.ca/products/950-SV (-DS)
951-FB	www.weco.ca/products/951-FB
951-SV (-DS)	www.weco.ca/products/951-SV (-DS)
950-PFB	www.weco.ca/products/950-PFB
951-PFB	www.weco.ca/products/951-PFB
974-FB	www.weco.ca/products/974-FB
950-SVG (-DS)	www.weco.ca/products/950-SVG (-DS)

Series 96-FB/SV and Series 97-FB/SV

960-FB	www.weco.ca/products/960-FB
960-SV (-DS)	www.weco.ca/products/960-SV (-DS)
961-FB	www.weco.ca/products/961-FB
961-SV (-DS)	www.weco.ca/products/961-SV (-DS)
970-FB	www.weco.ca/products/970-FB
970-SV (-DS)	www.weco.ca/products/970-SV (-DS)
971-FB	www.weco.ca/products/971-FB
971-SV (-DS)	www.weco.ca/products/971-SV (-DS)

URL for Screw Connectors for Printed Circuit Boards

Series 97-FBW, 97-FBS and 97-K

971-SLK	www.weco.ca/products/971-SLK
971-SLS	www.weco.ca/products/971-SLS
971-SLW	www.weco.ca/products/971-SLW
970-FBW	www.weco.ca/products/970-FBW
970-NFBW (-DS)	www.weco.ca/products/970-NFBW (-DS)
971-FBS (-DS)	www.weco.ca/products/971-FBS (-DS)
971-FBSP	www.weco.ca/products/971-FBSP
971-FBWP	www.weco.ca/products/971-FBWP
971-KRFBS (-DS)	www.weco.ca/products/971-KRFBS (-DS)
970-KB	www.weco.ca/products/970-KB
970-KA	www.weco.ca/products/970-KA
970-KE	www.weco.ca/products/970-KE
971-KS	www.weco.ca/products/971-KS

Series 110

110-A-111	www.weco.ca/products/110-A-111
110-A-115	www.weco.ca/products/110-A-115
110-AP-211	www.weco.ca/products/110-AP-211
110-M-211	www.weco.ca/products/110-M-211
110-M-221	www.weco.ca/products/110-M-221
110-M-215	www.weco.ca/products/110-M-215
110-M-225	www.weco.ca/products/110-M-225
110-V-211	www.weco.ca/products/110-V-211
110-V-215	www.weco.ca/products/110-V-215
110-P-211	www.weco.ca/products/110-P-211
110-P-221	www.weco.ca/products/110-P-221
110-P-215	www.weco.ca/products/110-P-215
110-P-225	www.weco.ca/products/110-P-225
110-S-211	www.weco.ca/products/110-S-211
110-S-221	www.weco.ca/products/110-S-221
110-S-215	www.weco.ca/products/110-S-215
110-S-225	www.weco.ca/products/110-S-225

Series 120, Series 121, Series 122

120-A-111	www.weco.ca/products/120-A-111
120-A-115	www.weco.ca/products/120-A-115
120-D-111	www.weco.ca/products/120-D-111
120-D-121	www.weco.ca/products/120-D-121
120-D-115	www.weco.ca/products/120-D-115
120-D-125	www.weco.ca/products/120-D-125
120-M-111	www.weco.ca/products/120-M-111
120-M-211	www.weco.ca/products/120-M-211
120-M-311	www.weco.ca/products/120-M-311
120-M-411	www.weco.ca/products/120-M-411
120-M-121	www.weco.ca/products/120-M-121
120-M-221	www.weco.ca/products/120-M-221
120-M-151	www.weco.ca/products/120-M-151
120-M-153	www.weco.ca/products/120-M-153
120-M-251	www.weco.ca/products/120-M-251
120-M-253	www.weco.ca/products/120-M-253
120-M-161	www.weco.ca/products/120-M-161
120-M-163	www.weco.ca/products/120-M-163
120-M-261	www.weco.ca/products/120-M-261
120-M-263	www.weco.ca/products/120-M-263
120-M-181	www.weco.ca/products/120-M-181
120-M-281	www.weco.ca/products/120-M-281
120-M-191	www.weco.ca/products/120-M-191
120-M-291	www.weco.ca/products/120-M-291
120-M-217	www.weco.ca/products/120-M-217
120-M-227	www.weco.ca/products/120-M-227
120-M-215	www.weco.ca/products/120-M-215
120-M-225	www.weco.ca/products/120-M-225
120-M-255	www.weco.ca/products/120-M-255
120-M-265	www.weco.ca/products/120-M-265
120-M-285	www.weco.ca/products/120-M-285
120-M-295	www.weco.ca/products/120-M-295
121-A-111	www.weco.ca/products/121-A-111
121-C-111	www.weco.ca/products/121-C-111
121-D-111	www.weco.ca/products/121-D-111
121-D-121	www.weco.ca/products/121-D-121
121-M-111	www.weco.ca/products/121-M-111
121-M-211	www.weco.ca/products/121-M-211
121-M-121	www.weco.ca/products/121-M-121
121-M-221	www.weco.ca/products/121-M-221
121-M-151	www.weco.ca/products/121-M-151
121-M-153	www.weco.ca/products/121-M-153
121-M-251	www.weco.ca/products/121-M-251
121-M-253	www.weco.ca/products/121-M-253
121-M-161	www.weco.ca/products/121-M-161
121-M-163	www.weco.ca/products/121-M-163
121-M-261	www.weco.ca/products/121-M-261
121-M-263	www.weco.ca/products/121-M-263
121-M-181	www.weco.ca/products/121-M-181
121-M-281	www.weco.ca/products/121-M-281
121-M-191	www.weco.ca/products/121-M-191
121-M-291	www.weco.ca/products/121-M-291
122-A-111	www.weco.ca/products/122-A-111
122-D-111	www.weco.ca/products/122-D-111
122-D-121	www.weco.ca/products/122-D-121
122-M-111	www.weco.ca/products/122-M-111
122-M-211	www.weco.ca/products/122-M-211
122-M-121	www.weco.ca/products/122-M-121
122-M-221	www.weco.ca/products/122-M-221

Series 130

130-A	www.weco.ca/products/130-A
130-P	www.weco.ca/products/130-P
130-K	www.weco.ca/products/130-K

Series 37

374-STFB (-DS)	www.weco.ca/products/374-STFB (-DS)
374-STG	www.weco.ca/products/374-STG
377-STFB (-DS)	www.weco.ca/products/377-STFB (-DS)
378-STFB (-DS)	www.weco.ca/products/378-STFB (-DS)
377-STG	www.weco.ca/products/377-STG

Series 302

302-FB (-DS)	www.weco.ca/products/302-FB (-DS)
302-SV (-DS)	www.weco.ca/products/302-SV (-DS)
302-SVG (-DS)	www.weco.ca/products/302-SVG (-DS)
302-FLW-DS	www.weco.ca/products/302-FLW-DS

Series 322

322-FBG	www.weco.ca/products/322-FBG
322-SVG (-DS)	www.weco.ca/products/322-SVG (-DS)

SURFACE MOUNT TERMINAL BLOCKS

Series SMT

930-T-D-SMD	www.weco.ca/products/930-T-D-SMD
140-A-SMD	www.weco.ca/products/140-A-SMD
140-A-524-SMD	www.weco.ca/products/140-A-524-SMD
140-A-521-SMD	www.weco.ca/products/140-A-521-SMD
971-SLK-SMD	www.weco.ca/products/971-SLK-SMD
971-SLK-THR	www.weco.ca/products/971-SLK-THR
930-THR (-DS)	www.weco.ca/products/930-THR (-DS)
950-THR (-DS)	www.weco.ca/products/950-THR (-DS)
970-THR (-DS)	www.weco.ca/products/970-THR (-DS)
120-M-211-THR	www.weco.ca/products/120-M-211-THR
120-M-221-THR	www.weco.ca/products/120-M-221-THR

SCREWLESS QUICK CLAMP TERMINAL BLOCKS

Series 79

797-A-111	www.weco.ca/products/797-A-111
797-A-121	www.weco.ca/products/797-A-121

Series 87

874 (-DR)	www.weco.ca/products/874 (-DR)
876 (-DR)	www.weco.ca/products/876 (-DR)

SCREW AND TAB CONNECTORS FOR PRINTED CIRCUIT BOARDS

Series 98

980-S	www.weco.ca/products/980-S
980-D	www.weco.ca/products/980-D
980-W	www.weco.ca/products/980-W
982-S	www.weco.ca/products/982-S
982-D	www.weco.ca/products/982-D
982-W	www.weco.ca/products/982-W
983-S	www.weco.ca/products/983-S
983-D	www.weco.ca/products/983-D
983-W	www.weco.ca/products/983-W
983-FD	www.weco.ca/products/983-FD
983-FS	www.weco.ca/products/983-FS
983-US	www.weco.ca/products/983-US
983-UD	www.weco.ca/products/983-UD
983-UW	www.weco.ca/products/983-UW
982-SMF	www.weco.ca/products/982-SMF
982-SML	www.weco.ca/products/982-SML
983-SMF	www.weco.ca/products/983-SMF
983-SML	www.weco.ca/products/983-SML

SINGLE TABS FOR PRINTED CIRCUIT BOARDS

Series GST

GST-00-BG	www.weco.ca/products/GST-00-BG
GST-00-BGS	www.weco.ca/products/GST-00-BGS
GST-900-SH	www.weco.ca/products/GST-900-SH
GST-0-BG	www.weco.ca/products/GST-0-BG
GST-0-BGS	www.weco.ca/products/GST-0-BGS
GST-BG	www.weco.ca/products/GST-BG
GST-BGS	www.weco.ca/products/GST-BGS
GST-900-SUN	www.weco.ca/products/GST-900-SUN
GST-900-S	www.weco.ca/products/GST-900-S
GST-900-W	www.weco.ca/products/GST-900-W

TAB CONNECTORS FOR PRINTED CIRCUIT BOARDS

Series 900

900-S	www.weco.ca/products/900-S
900-SH	www.weco.ca/products/900-SH
900-SUB	www.weco.ca/products/900-SUB
900-SUC	www.weco.ca/products/900-SUC
900-SUN	www.weco.ca/products/900-SUN
900-W	www.weco.ca/products/900-W

WECO offers a wide range of electronic modules to meet the needs of industry in order to connect, modify and control the flow of electricity between various systems and circuits.

Fulfilling the customer's needs is our final goal. That's why our standard modules include interface, relay, fuse, indicator, diode, power supply and input/output types. The modules consist of printed circuit boards with the components to provide the needed functions. The circuit board is mounted in housings made up of interlocking elements. The complete units are able to be mounted onto standard DIN rails (H-15, H-35, or G-32). A large variety of WECO terminal blocks are available to provide connection to and from the modules themselves. WECO can supply empty shells in a variety of configurations to meet the needs of users who want to make their own PCB.

WECO also offers a module design service to fullfil the particular needs of almost any application. For more information, please contact the WECO Customer Service Department. Our engineers will work with your designers to provide the right solutions.

Rail Mounted Electronic Modules

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Module Housing	M-512	42
Relay Modules	MRPAAL	42
Interface Module	MTDA	43

URL

URL	(web links for others series or variations of above series)	43

***** WECO Electrical Connectors Inc. features in this Supplement Catalog a small portion of its products. To see our complete product listing, please consult our URL (web) links that will bring you directly to the data information of all our products.

Module Housing
Types M-512

CODE:

Side section **11**

Intermediate section **22**

Intermediate section **45**

Intermediate section **13**

Side section **11**

Mounting foot **00**

CODE: see "How to order" box.

PC board length	Required sections
20	2x11
34	2x11, 1x13
43	2x11, 1x22
48	2x11, 2x13
56	2x11, 1x13, 1x22
62	2x11, 3x13
65	2x11, 1x45
70	2x11, 2x13, 1x22
75	2x11, 4x13
79	2x11, 1x13, 1x45
84	2x11, 3x13, 1x22
88	2x11, 1x22, 1x45
93	2x11, 2x13, 1x45
98	2x11, 4x13, 1x22
101	2x11, 1x13, 1x22, 1x45
107	2x11, 3x13, 1x45
111	2x11, 2x45
115	2x11, 2x13, 1x22, 1x45
121	2x11, 4x13, 1x45
160	2x11, 2x13, 1x22, 2x45

Assembly Table - The following table provides the required sections for a specified PC board length. Lengths for covers are also listed.

***Length of Connector (L) L** = No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

Series M-512 is a complete system of module housings to fit a large variety of PC board sizes. Many accessories are available to satisfy special design requirements.

Side sections and Intermediate sections. The PC board width must be 4 mm (0.16 in.) less than the width of the module housing. Sections are available in four widths:
Width 01: 76 mm (3.00 in.)
Width 02: 90 mm (3.55 in.)
Width 03: 104 mm (4.10 in.)
Width 04: 118 mm (4.65 in.)

The PCB length must be 3 mm (0.12 in.) less than the length of the module housing. The smallest possible PC board length is 20 mm (0.79 in.), which requires only one mounting foot, regardless of width. All other lengths require a minimum of two mounting feet per module; the weight of the PC board with all installed components will dictate the need for additional mounting feet.
A formula to calculate PC board length is:
PC board length = Total module length minus 3 mm (0.12 in.)

Mounting Feet
The mounting feet slide into the housing of the module elements and can be snapped onto all mounting rails (DIN EN 50022, 50035, and 50045). All individual elements interlock and provide a mechanical integrity, which can withstand high vibrational stress.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, grey
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 80°C (176°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%

ACCESSORIES

- DIN Mounting Rails.
- Module Housing Accessories, (Side Panel, Cover, Marking Adaptor). Find more info at www.weco.ca/products/module housing accessories.

HOW TO ORDER

		WIDTH (W):	MODULAR SECTIONS:
		76 mm: 01 **90 mm: 02** **104 mm: 03** **118 mm: 04**	**13.75 mm length: 13** **22.5 mm length: 22** **45 mm length: 45** **side section: 11** **mounting foot: 00**
M-512	-		

■ **www.weco.ca/products/M-512**

Relay Modules
Types MRPAAL

***Length of Connector (L) L** = No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

Relay module MRPA may be equipped with 1, 4, 8, or 16 relays. Each relay, either the plug-in or solder type, has SPDT contacts. For DC operation, a diode in series with the operating current prevents operation when incorrect polarities are applied. An LED shows relay operating status, and a diode across the coil protects circuits from counter EMF. The positive operating modules employ a negative bus, whereas the negative operating modules use a positive bus.

In the case of AC operation, diodes are omitted. Best switching characteristics are obtained when mounted with the input side downward, or in a horizontal plane.

TECHNICAL DATA

Operating voltage: as per "How to order" box
Rated power: 0.7 W
Contact material: AgCdO
Rated switching voltage: 250 VAC
Switching / continuous current: 10 A / 8 A
Switching capacity: 2500 VA
Expected mechanical life: ≥ 10^7 operations
Operate / release time: < 8 ms / < 10 ms
Contact to contact breakdown voltage: 1000 V
Wire Stripping Length: 8 mm (0.31 in.)
Recommended Wire Size: 26-12 AWG
Screw Tightening Torque: max. 0.51 Nm (4.5 lbfin.)
- Relays according to DIN VDE 0110, pollution degree 3 at 250 V

DIMENSIONS

Height: When mounted on:
H-35 rail: 69 mm (2.72 in.)
G-32 rail: 74 mm (2.92 in.)
H-15 rail: 68 mm (2.68 in.)
D-35 rail: 76.5 mm (3.01 in.)
Length: with 1 relay: 24 mm (0.95 in.), with 4 relays: 69 mm (2.72 in.), with 8 relays: 137 mm (5.40 in.), with 16 relays: 250 mm (9.84 in.)
Width: 76 mm (3.00 in.)

MATERIAL

TEMPERATURE LIMITS: Continuous: -25° to 40°C (-13° to 104°F)

ACCESSORIES

- DIN Mounting Rails.
- Module Housing Accessories, (Side Panel, Cover, Marking Adaptor). Find more info at www.weco.ca/products/module housing accessories.

OPTIONS

***M:** 150-A-111 screw connector*
***R:** 120-M-221 & 120-A-111 Plug-In screw connector*
***S:** 900-S Tab Connectors*
Also available: customer specified designs.
Version: Soldered relays, SPDT, Without cover (Z).

HOW TO ORDER

	INPUT VOLTAGE:	NUMBER OF RELAYS:	INPUT VOLTAGE (V):	INPUT TERMINALS:	OUTPUT TERMINALS:	
	AC: A **DC+: P** **DC-: M**	**1, 4, 8, G (16)**	**also available: 006, 012, 024, 048, 060, 110, 220**	**M** **R** **S**	**M** **R** **S**	
MRPAAL		-				**Z**

■ **www.weco.ca/products/MRPAAL**

Interface Modules
Types MTDA

All versions feature holes to accommodate cable ties.

Number of poles	A	B	C	D
9	40 mm (1.57 in.)	32 mm (1.26 in.)	20.5 mm (0.81 in.)	29.8 mm (1.17 in.)
15	50 mm (1.97 in.)	32 mm (1.26 in.)	20.5 mm (0.81 in.)	29.8 mm (1.17 in.)
25	75 mm (2.95 in.)	32 mm (1.26 in.)	20.5 mm (0.81 in.)	29.8 mm (1.17 in.)
37	105 mm (4.13 in.)	32 mm (1.26 in.)	20.5 mm (0.81 in.)	29.8 mm (1.17 in.)
50	80 mm (3.15 in.)	52 mm (2.05 in.)	28 mm (1.10 in.)	29.8 mm (1.17 in.)

***Length of Connector (L) L** = No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

Type MTDA interface modules were originally designed by WECO for use in motor control machinery, electronic assembly equipment, material handling, specialty machinery and multi-axis systems, etc. Its particular advantage is that it provides a low profile interface between discrete wiring and a D-Subminiature connector.
Type MTDA modules are offered with a choice of male and female D-Subminiature connectors, as well as a choice of male jackscrews or female screw locks. Industry standard 9, 15, 25, 37 and 50 pole versions are available.

TECHNICAL DATA

Operating voltage: 125 VAC
Switching / continuous current: 3.5 A
Wire Stripping length: 6 mm (0.24 in.)
Recommended Wire Size: 30-14 AWG
Screw Tightening Torque: max. 0.4 Nm (3.5 lbfin.)

MATERIAL

TEMPERATURE LIMITS: Continuous: -40° to 80°C (-40° to 176°F)

ACCESSORIES

- DIN Mounting Rails.
- Module Housing Accessories, (Side Panel, Cover, Marking Adaptor). Find more info at www.weco.ca/products/module housing accessories.

OPTIONS

Also available: customer specified designs.
Version: 1 D-Sub connector, low profile.

HOW TO ORDER

	NUMBER OF POLES: **009, 015, 025, 037, 050**	D-SUB CONNECTOR: **male: M female: F**	MOUNTING HARDWARE: **male jackscrews (cable mounting): M female screw locks (panel mounting): F**
MTDA		-	

■ **www.weco.ca/products/MTDA**

URL

MODULE HOUSINGS

Series M-512 Sectional Units
M-512 www.weco.ca/products/M-512
Series M-513 Extruded Units
M-513 www.weco.ca/products/M-513

RELAY MODULES

Series MRPA
MRPAAS www.weco.ca/products/MRPAAS
MRPAAL www.weco.ca/products/MRPAAL
Series MRKA
MRKA0S www.weco.ca/products/MRKA0S
MRKA4S www.weco.ca/products/MRKA4S

INTERFACE MODULES

Series MAS
MAS www.weco.ca/products/MAS
Series MTB and MTBL
MTB www.weco.ca/products/MTB
MTBL www.weco.ca/products/MTBL
Series MTD
MTD www.weco.ca/products/MTD
Series MTDA
MTDA www.weco.ca/products/MTDA
Series MTE and MTK
MTE www.weco.ca/products/MTE
MTK www.weco.ca/products/MTK

OTHER MODULES

Series MHSA Semiconductor AC Switch Modules
MHSA www.weco.ca/products/MHSA
Series MDD Diode Modules
MDDA www.weco.ca/products/MDDA
MDDE www.weco.ca/products/MDDE
MDDK www.weco.ca/products/MDDK
Series MBC Component Modules
MBCA www.weco.ca/products/MBCA
MBCB www.weco.ca/products/MBCB
Series MSG Fuse Holder Modules
MSGB www.weco.ca/products/MSGB
MSGE www.weco.ca/products/MSGE
Series MPS Power Supply Modules
MPS-05-12-XXZ www.weco.ca/products/MPS-05-12-XXZ
MPS-05-15-XXZ www.weco.ca/products/MPS-05-15-XXZ
MPS-12-12-XXZ www.weco.ca/products/MPS-12-12-XXZ
MPS-15-15-XXZ www.weco.ca/products/MPS-15-15-XXZ

Terminal **Strips**

for Panel / Chassis Mounting

Much of **WECO**'s dynamic growth has paralleled the evolving North American market in Euro-style terminal strips.

Our 300 series terminal strips includes screw and tab terminals. Some of our strips are offered with solder and quick connect tabs—another example of WECO's dedication to custom design solutions. At WECO, we engineer our products from a human point of view.

All our products are designed according to international requirements, particularly to UL, CSA and VDE regulations and approvals obtained in various countries. Approval data may differ from country to country.

Eurostyle Screw Terminal Strips for Panel/Chassis Mounting

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Depluggable Terminal Strips for Panel/Chassis Mounting

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Barrier Screw Terminal Strips for Panel/Chassis Mounting

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Combination Screw – Solder Terminal Strips

Series 300-LF	302-LF-DS	50

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***** WECO Electrical Connectors Inc. features in this Supplement Catalog a small portion of its products. To see our complete product listing, please consult our URL (web) links that will bring you directly to the data information of all our products.

WECO®

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

Series 300

Types 302 (-HDS)

8 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

- **Standard version**
- Recommended mounting hardware: M2.5 pan head screw (#3-48 pan head screw).

APPLICATION

Due to high resistance to vibrations, these terminal strips serve in applications using line voltage motors or in construction vehicle. Terminal strips are also used in Heating/ventilation/air conditioning (HVAC) products.

TECHNICAL DATA

Center to Center Spacing: 8 mm (0.315 in.) **Wire Stripping length:** 5 mm (0.20 in.)
Nominal Cross Section: 1.5 mm² (2325 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	20-12	B,D	max. 3.5 lbfin.
File No.: LR24322	CSA	20	300	26-12	B,D,E	max. 0.4 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing from live parts to the mounting surface.
UL certified for multiple wiring 2 x 18 AWG solid/stranded.
Version HDS is CSA certified for 26-14 AWG.
International Approvals:

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: nickel plated copper alloy
Wire Protector: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M2.6

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: for non HDS versions only: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - HDS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
302		/		-	

■ **www.weco.ca/products/302 (-HDS)**

Series 300

Types 323 (-HDS)

10 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Standard version**
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw).

APPLICATION

Due to high resistance to vibrations, these terminal strips serve in applications using line voltage motors or in construction vehicle. Terminal strips are also used in Heating/ventilation/air conditioning (HVAC) products.

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	30	300	20-10	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	25	300	26-10	B,D,E	max. 0.51 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing from live parts to the mounting surface.
International Approvals:

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: nickel plated copper alloy
Wire Protector: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Marking Strips.
- Covers and Base Plates, Type 323.
- Jumper Combs, Series 300-J.

OPTIONS

See How to Order. *If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: for non HDS versions only: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - HDS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
323		/		-	

■ **www.weco.ca/products/323 (-HDS)**

Eurostyle Screw Terminal Strips for Panel/Chassis Mounting

Series 300

Types 324 (-HDS)

11.5 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Standard version**
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

APPLICATION

Due to high resistance to vibrations, these terminal strips serve in applications using line voltage motors or in construction vehicle. Terminal strips are also used in Heating/ventilation/air conditioning (HVAC) products.

TECHNICAL DATA

Center to Center Spacing: 11.5 mm (0.453 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 4 mm² (6199 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	35	300	22-8	B,D	max. 7.0 lbfin.
File No.: LR24322	CSA	40	300	22-10	B,D,E	max. 0.8 Nm

UL 300V / C and 600 V / D: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing form live parts to the mounting surface.
UL: wire range is extended to 26 AWG for factory wiring.
Version HDS is CSA certified for 26-10 AWG.
International Approvals:

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: nickel plated copper alloy
Wire Protector: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M3.5

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: for non HDS versions only: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - HDS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
324		/		-	

■ **www.weco.ca/products/324 (-HDS)**

Series 300

Types 327-FU (-HDS)

14.5 mm spacing • 1 to 12 poles

Raised Base

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3 mm*

DESCRIPTION

The -FU designation provides a higher profile and therefore higher creepage distances to meet certain VDE design requirements.

- **Raised base**
- Recommended mounting hardware: M4 pan head screw (#8-32 pan head screw)

APPLICATION

Due to high resistance to vibrations, these terminal strips serve in applications using line voltage motors or in construction vehicle. Terminal strips are also used in Heating/ventilation/air conditioning (HVAC) products.

TECHNICAL DATA

Center to Center Spacing: 14.5 mm (0.571 in.) **Wire Stripping length:** 9 mm (0.35 in.)
Nominal Cross Section: 16 mm² (24796 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	65	600	14-6	B,C,D	max. 16.0 lbfin.
File No.: LR24322	CSA	80	600	14-6	B,C,D,E	max. 2.0 Nm

International Approvals:

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, off-white
TEMPERATURE LIMITS:
Short time: 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 33%
Terminal Body: nickel plated copper alloy
Wire Protector: stainless steel strip
Screw: yellow chromate passivated, zinc plated, steel, M5

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
PS: *Clear chromate passivated, zinc plated, steel screws*
WS: *Wire Stop (to control the wire insertion depth)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: for non HDS versions only: terminal body)
WS is for HDS versions only

HOW TO ORDER

	WIRE PROTECTOR: with: - HDS		POLES: 01 to 12		OPTIONS: CN, SM, PS, G05, G30, S30
327-FU		/		-	

■ **www.weco.ca/products/327-FU (-HDS)**

Series 300-S

Types 322-SVW (-DS)

10 mm spacing • 1 to 12 poles

322-SVW (-DS) *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

The 322-SVW and 323-PHFBW combination provides connection of three wires in each position.

- **Longer Plug**
- Plug-In Direction and Wire Entrance Parallel to PCB when plugged with 322-FBG
- Plug-In Direction Perpendicular to Wire Entry Direction when plugged with 323-FBW (-DS), 323-PHFBW (-DS)
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	18-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	26-10	B,C,D,E	max. 0.51 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing form live parts to the mounting surface.
Version DS is CSA certified for 26-12 AWG.
International Approvals: Ⓝ

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)
Male plugs may be supplied with a protective leading pin. Please consult factory.

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
322-SVW		/		-	

■ **www.weco.ca/products/322-SVW (-DS)**

Series 300-S

Types 323-PHFBW (-DS)

10 mm spacing • 1 to 12 poles

323-PHFBW (-DS) *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

The 323-PHFBW offers on each pole two wire connections and one pluggable socket.

- **Socket**
- Plug-In Direction Parallel with Wire Entry Direction when plugged with 322-SVW (-DS)
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	18-12	B,D	max. 4.5 lbfin.
File No.: LR24322	CSA	20	300	26-10	B,C,D,E	max. 0.51 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing form live parts to the mounting surface.
Version DS is UL certified for 20A through connector, 10A through plug.
Version DS is CSA certified for 26-12 AWG.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Spring Clip: stainless steel strip
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
323-PHFBW		/		-	

■ **www.weco.ca/products/323-PHFBW (-DS)**

Depluggable Terminal Strips for Panel/Chassis Mounting

Series 300-S

Types 324-STFS (-DS)

11.5 mm spacing • 1 to 12 poles

324-STFS (-DS)

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Plug**
- Plug-In Direction Parallel with Wire Entry Direction when plugged with 324-STFB (-DS)
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 11.5 mm (0.452 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 6 mm² (9299 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	25	300	18-10	B,D	max. 7.0 lbfin.
File No.: LR24322	CSA	20	300	26-10	B,C,D,E	max. 0.8 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing form live parts to the mounting surface.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Spring Sleeve: zinc plated steel
Screw: yellow chromate passivated, zinc plated, steel, M3.5

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)
Male plugs may be supplied with a protective leading pin. Please consult factory.

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
324-STFS		/		-	

■ **www.weco.ca/products/324-STFS (-DS)**

Series 300-S

Types 324-STFB (-DS)

11.5 mm spacing • 1 to 12 poles

324-STFB (-DS)

One possible variation of assembly

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Socket**
- Plug-In Direction Parallel with Wire Entry Direction when plugged with 324-STFS (-DS)
- The socket contact is reinforced by a spring sleeve to ensure a high pressure reliable connection.

Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 11.5 mm (0.452 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: 6 mm² (9299 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	25	300	18-10	B,D	max. 7.0 lbfin.
File No.: LR24322	CSA	20	300	26-10	B,C,D,E	max. 0.8 Nm

UL 300V / C: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing form live parts to the mounting surface.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Spring Sleeve: zinc plated steel
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3.5

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
324-STFB		/		-	

■ **www.weco.ca/products/324-STFB (-DS)**

Series 300-S

Types 321-B (-DS)

10 mm spacing • 1 to 12 poles

321-B (-DS) *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Socket**
- Plug-In Direction Parallel with Wire Entry Direction when plugged with 321-S (-DS)
- Entry for the plug is funnel-shaped to ease insertion

This is a smooth insertion force connection and good for multiple connects and disconnects.
Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	18-12	B,C,D	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	26-10	B,C,D,E	max. 0.51 Nm

Version DS is CSA certified for 26-12 AWG

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
321-B		/		-	

■ **www.weco.ca/products/321-B (-DS)**

Series 300-S

Types 321-S (-DS)

10 mm spacing • 1 to 12 poles

321-S (-DS) *One possible variation of assembly*

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 3.5 mm*

DESCRIPTION

- **Plug**
- Plug-In Direction Parallel with Wire Entry Direction when plugged with 321-B (-DS)
- Recommended mounting hardware: M3.5 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 10 mm (0.394 in.) **Wire Stripping length:** 6 mm (0.25 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	300	18-12	B,D,E	max. 4.5 lbfin.
File No.: LR24322	CSA	15	300	26-10	B,C,D,E	max. 0.51 Nm

Version DS is CSA certified for 26-12 AWG.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: tin plated copper alloy
Wire Protector: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)
Male plugs may be supplied with a protective leading pin. Please consult factory.

HOW TO ORDER

	WIRE PROTECTOR: with: - DS		POLES: 01 to 12		OPTIONS: CN, SM, BS, PS, G05, G30, S30
321-S		/		-	

■ **www.weco.ca/products/321-S (-DS)**

Barrier Screw Terminal Strips for Panel/Chassis Mounting

Series 307-PC

Types 307-PCA /-PCF

11 mm spacing • 2 to 21 poles

Typical Application

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 19.3 mm*
Distance between mounting holes (A)
A = No. of Poles x Center to Center Spacing + 11.3 mm

DESCRIPTION

- **Double row screw connector**
- Recommended mounting hardware: M4 pan head screw (#8-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 11 mm (0.433 in.) **Wire Stripping length:** 8.5 mm (0.33 in.)
Nominal Cross Section: 4 mm² (6199 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	20	600	14 max.	B,C	max. 10.6 lbfin.
File No.: LR24322	CSA	20	600	18-14	B,C,D,E	max. 1.2 Nm

International Approvals: Ⓝ Ⓢ

MATERIAL

MOLDING: Polycarbonate, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 135°C (275°F)
Continuous: RTI 105°C (221°F)
Low limit: -100°C (-148°F)
Comparative Tracking Index: CTI > 110
Oxygen Index Rating: 34%
Terminal Body: nickel plated copper alloy
Rivet: tin plated copper
Screw and Pressure Plate: yellow chromate passivated, zinc plated, steel, M4
Spring Washer and Plain Washer: (-PCF only): yellow chromate passivated, zinc plated, steel

ACCESSORIES

- BST Marking Strips.
- Jumper, Type 307-VS.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

HOW TO ORDER

	SPRING WASHER AND PLAIN WASHER		POLES:		OPTIONS:
	without: A **with: F**		**02 to 21**		**G05, G30, S30**
307-PC		/		-	

■ **www.weco.ca/products/307-PCA /-PCF**

Combination Screw - Solder Terminal Strips

Series 300-LF

Type 302-LF-DS

8 mm spacing • 1 to 12 poles

Screw-Solder Terminal Strip

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

- **Standard version**
- Flexible solder tab
- Recommended mounting hardware: M2.5 pan head screw (#3-48 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 8 mm (0.315 in.) **Wire Stripping length:** 5 mm (0.20 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	6	300	20-14	B,D	max. 3.5 lbfin.
File No.: LR24322	CSA	10	300	26-14	B,D,E	max. 0.4 Nm

UL 300V / C and 600V / B,C,D: if mounted on a suitable insulated surface, on standoffs, or equivalent means to maintain spacing from live parts to the mounting surface.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-2, off-white
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body: nickel plated copper alloy
Wire Protector and Solder Tab: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M2.6

ACCESSORIES

- BST Marking Strips.
- Jumper Combs, Series 300-J.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: wire protector)

HOW TO ORDER

	POLES:		OPTIONS:
	01 to 12		**CN, SM, BS, PS, G05, G30, S30**
302-LF-DS/		-	

■ **www.weco.ca/products/302-LF-DS**

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

EUROSTYLE SCREW TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 300

302 (-HDS)	www.weco.ca/products/302 (-HDS)
302-N (-HDS)	www.weco.ca/products/302-N (-HDS)
323 (-HDS)	www.weco.ca/products/323 (-HDS)
323-N (-HDS)	www.weco.ca/products/323-N (-HDS)
323-FN (-HDS)	www.weco.ca/products/323-FN (-HDS)
323-V (-HDS)	www.weco.ca/products/323-V (-HDS)
323-FN-V (-HDS)	www.weco.ca/products/323-FN-V (-HDS)
323-FU-16.5 (-HDS)	www.weco.ca/products/323-FU-16.5 (-HDS)
323-FU-16.5-V (-HDS)	www.weco.ca/products/323-FU-16.5-V (-HDS)
323-FU-18.5 (-HDS)	www.weco.ca/products/323-FU-18.5 (-HDS)
323-FU-18.5-V (-HDS)	www.weco.ca/products/323-FU-18.5-V (-HDS)
324 (-HDS)	www.weco.ca/products/324 (-HDS)
324-FU (-HDS)	www.weco.ca/products/324-FU (-HDS)
326 (-HDS)	www.weco.ca/products/326 (-HDS)
327 (-HDS)	www.weco.ca/products/327 (-HDS)
327-FU (-HDS)	www.weco.ca/products/327-FU (-HDS)

DEPLUGGABLE TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 300-S

302-FB (-DS)	www.weco.ca/products/302-FB (-DS)
302-NFB (-DS)	www.weco.ca/products/302-NFB (-DS)
302-SV (-DS)	www.weco.ca/products/302-SV (-DS)
302-NSV (-DS)	www.weco.ca/products/302-NSV (-DS)
302-STS (-DS)	www.weco.ca/products/302-STS (-DS)
302-NSTS (-DS)	www.weco.ca/products/302-NSTS (-DS)
302-STB (-DS)	www.weco.ca/products/302-STB (-DS)
302-NSTB (-DS)	www.weco.ca/products/302-NSTB (-DS)
302-NFLW -DS	www.weco.ca/products/302-NFLW -DS
302-FLW-DS	www.weco.ca/products/302-FLW-DS
302-NSLW (-HDS)	www.weco.ca/products/302-NSLW (-HDS)
302-NSLP (-HDS)	www.weco.ca/products/302-NSLP (-HDS)
302-NFLP-DS	www.weco.ca/products/302-NFLP-DS
321-S (-DS)	www.weco.ca/products/321-S (-DS)
321-B (-DS)	www.weco.ca/products/321-B (-DS)
322-STFS (-DS)	www.weco.ca/products/322-STFS (-DS)
323-STFB (-DS)	www.weco.ca/products/323-STFB (-DS)
322-SV (-DS)	www.weco.ca/products/322-SV (-DS)
322-SVW (-DS)	www.weco.ca/products/322-SVW (-DS)
323-FB (-HDS)	www.weco.ca/products/323-FB (-HDS)
323-FBW (-DS)	www.weco.ca/products/323-FBW (-DS)
323-PHFBW (-DS)	www.weco.ca/products/323-PHFBW (-DS)
324-STFS (-DS)	www.weco.ca/products/324-STFS (-DS)
324-STFB (-DS)	www.weco.ca/products/324-STFB (-DS)

BARRIER SCREW TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 307-PC

307-PCA	www.weco.ca/products/307-PCA
307-PCF	www.weco.ca/products/307-PCF

COMBINATION SCREW - SOLDER TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 300-LF

302-LF-DS	www.weco.ca/products/302-LF-DS
302-NLF-DS	www.weco.ca/products/302-NLF-DS
321-LFS (-DS)	www.weco.ca/products/321-LFS (-DS)
322-LFS (-DS)	www.weco.ca/products/322-LFS (-DS)

Series 931-A-LFDS

931-A-LFDS	www.weco.ca/products/931-A-LFDS

Series 951-A-LFDS

951-A-LFDS	www.weco.ca/products/951-A-LFDS

QUICK CLAMP SCREWLESS TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 81

810	www.weco.ca/products/810

COMBINATION SCREW - QUICK CLAMP TERMINAL STRIPS FOR PANEL/ CHASSIS MOUNTING

Series 82

820 (-DS)	www.weco.ca/products/820 (-DS)

Tabs and Solder **Connectors**

for Panel / Chassis Mounting

At **WECO**, we design connectors with people in mind—with our customers in mind! So, our tab connectors are equipped with tab terminals in various sizes, as well as in combinations of multiple tab arrangements. These combinations offer high wiring density in a small space.

Our commitment is to ensure that WECO technology is connecting with your needs. Our tab connectors combine with screw and solder terminals to ensure as broad a range of quality solutions as possible. All our products are designed according to international requirements, particularly to UL, CSA and VDE regulations and approvals obtained in various countries. Approval data may vary from country to country.

Multi-Point Tab and Screw Connectors for Panel/Chassis Mounting

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	GST-090-090, GST-90-90, GST-90-90-2.8/6.3	55
	GST-S-00, GST-S-0, GST-S-0-2.8/6.3	55
	GST-S-045, GST-S-45, GST-S-45-2.8/6.3	55
	GST-S-090, GST-S-90, GST-S-90-2.8/6.3	55
	GST-SAK-00, GST-SAK-0, GST-SAK-0-2.8/6.3	55
	GST-SAK-045, GST-SAK-45, GST-SAK-45-2.8/6.3	55
	GST-SAK-090, GST-SAK-90-2.8/6.3, GST-SAK-90-2.8/6.3	55

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***** WECO Electrical Connectors Inc. features in this Supplement Catalog a small portion of its products. To see our complete product listing, please consult our URL (web) links that will bring you directly to the data information of all our products.

WECO®

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

Series 307-PCM

Type 307-PCM

11 mm spacing • 1 to 21 poles

(1) These arrangements feature flanges to prevent wires slipping from under the screw head.

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 19.3 mm*
Distance between mounting hole centers (A) A = No. of Poles x Center to Center Spacing + 11.3 mm

DESCRIPTION

- **Multi-Point tab connector**
- Tab arrangements at various angles

Recommended mounting hardware: M4 pan head screw (#8-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 11 mm (0.433 in.) **Wire Stripping length:** 8 mm (0.31 in.)
Nominal Cross Section: 2.8 mm (0.110 in.) tabs: 1 mm² (1550 mils²)
4.8 mm (0.187 in.) tabs: 2.5 mm² (3874 mils²)
6.3 mm (0.250 in.) tabs: 6 mm² (9299 mils²)
Screw side: 4 mm² (6199 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group	AWG
File No.: E69841	UL	25	300	B,C	12 max.
File No.: LR24322	CSA	25	300	B,C,D,E	18-14

307-PCM with 6.3 mm tab: 25A
307-PCM with 4.8 mm tab: 15A
307-PCM with 2.8 mm tab: 10A

International Approvals: Ⓝ Ⓓ Ⓢ
Rated Impulse Withstand Voltage: 4000 V

MATERIAL

MOLDING: polycarbonate, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 135°C (274°F)
Continuous: RTI 105°C (221°F)
Low limit: -100°C (-148°F)
Comparative Tracking Index: CTI > 110
Oxygen Index Rating: 40%
Terminal Body and Tabs: nickel plated copper alloy
Screw and Pressure Plate: yellow chromate passivated, zinc plated, steel
Rivet: tin plated copper
Tabs: 2.8 mm (0.110 in.), 4.8 mm (0.187 in.) or 6.3 mm (0.250 in.)
Screw: M4

ACCESSORIES

- BST Marking Strips.
- Covers and Securing pins, Type 3070.
- ISO Insulating Sleeves.
- Jumper, Type 307-V.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: tab)
For versions which require a mix of tab arrangements or tab sizes, please include a sketch when ordering. Additional or custom tab arrangements may be available. Please consult factory.

HOW TO ORDER

	POLES:	TAB ARRANGEMENT:	TAB SIZE:	OPTIONS:
	01 to 21	**(see table above)**	**(see table above) XBS, 4.8, 6.3**	**SM, G05, G30, S30**

307-PCM/ - - -

■ **www.weco.ca/products/307-PCM**

Series 970-B-2.8

Types 970-B-2.8 (-DS)

5 mm spacing • 2 to 8 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 11 mm*

DESCRIPTION

Type 970-B-2.8 feed through tab connectors provide high density connections for unterminated stripped wires at the screw clamp side, and for 2.8 mm (0.110 in.) female receptacles at the tab side.
The male tabs may be accessed through a cutout in the panel which enables the external wiring to be terminated to the inside of the enclosure. Mounting flanges are provided at either end for mounting with a nut and bolt.

- **Panel feed-through connector**
- With fixing flange
- Recommended mounting hardware: M2 cheese head screw (#2-56 fillister head screw)

TECHNICAL DATA

Center to Center Spacing: 5 mm (0.197 in.) **Wire Stripping length:** 6 mm (0.24 in.)
Nominal Cross Section: Tab side: 1 mm² (1550 mils²)
Screw side: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	Application Group	AWG	Screw Tightening Torque
File No.: E69841	UL	8	300	B,C	22-12	max. 4.5 lbfin.
File No.: LR24322	CSA	8	300	B,D,E	22-10	max. 0.51 Nm

UL: 24-26 AWG range for factory wiring only.
970-B-2.8-DS is CSA certified for 26-10 AWG.

MATERIAL

MOLDING: polyamide, self extinguishing to UL 94, V-0, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body and Tabs: tin plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel , M3
Wire Protector: tin plated copper alloy
Tabs: 2.8 mm (0.110 in.)

ACCESSORIES

- BST Self Adhesive Marking Strips. Consecutively numbered.
- Jumper, Type 970-J1.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped White numbers)*
SM: *Special Marking (please provide sketch)*
BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
WG: *Wire Guide*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)
Other center to center spacings are available. Please consult factory.

HOW TO ORDER

	WIRE PROTECTOR:	POLES:	OPTIONS:
	with: - DS	**02 to 08**	**CN, SM, BS, PS, WG, G05, G30, S30**

970-B-2.8 / -

■ **www.weco.ca/products/970-B-2.8 (-DS)**

Multi-Point Tab and Screw Connectors

Series 43

Types 433 (-DS)

16 mm spacing • 3 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*

DESCRIPTION

- **Multi-Point tab connector • 6.3 mm (0.25 in.) tabs**
- With mounting peg
- Recommended mounting hardware: M4 pan head screw (#6-32 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 16 mm (0.630 in.) **Wire Stripping length:** 7 mm (0.28 in.)
Nominal Cross Section: Screw clamp side: 4 mm² (6199 mils²)
Tab side: 6 mm² (9299 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	25	300	18-10	B	max. 7.0 lbfin.
File No.: LR24322	CSA	20	300	22-10	B,C,D,E	max. 0.79 Nm

UL: Pluggable tab side certified for 10 AWG.
International Approvals:

MATERIAL

MOLDING: polyamide, self extinguishing to UL 94, V-2, grey
TEMPERATURE LIMITS: **Short time:** 140°C (284°F)
Continuous: RTI 105°C (221°F)
Low limit: -40°C (-40°F)
Comparative Tracking Index: CTI > 600
Oxygen Index Rating: 25%
Terminal Body : nickel plated copper alloy
Screw: yellow chromate passivated, zinc plated, steel, M3.5
Wire Protector: tin plated copper alloy
Tabs: nickel plated copper alloy, 6.3 mm (0.250 in.)

ACCESSORIES

- ISO Insulating Sleeves.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

BS: *Copper Alloy Screws*
PS: *Clear chromate passivated, zinc plated, steel screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: terminal body)

Note: The type 433 3-position block provides two mounting holes.
The -Z designation can be specified as an option for the type 433; see the "How to Order" box.

The -Z designation for the 3-position type 433 provides a pin protruding from the block's base which is meant to fit into a matching hole in the panel or chassis; this provides a secure attachment while only using one screw.

HOW TO ORDER

	MOUNTING PEG:	MARKING:	WIRE PROTECTOR:	OPTIONS:
	with: Z **without: L**	**R S N: A** **L N (symbol): B**	**with: - DS**	**BS, PS, G05, G30, S30**

433- _____ _____ _____ **-** _____

■ **www.weco.ca/products/433 (-DS)**

Insulated Tab Terminal Strips

Series 400

Type 401

12 mm spacing • 1 to 12 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing - 2 mm*

DESCRIPTION

- **Insulated tab • XBS or 2.8 mm (0.11 in.), 4.8 mm (0.19 in.), 6.3 mm (0.25 in.)**
- Available in PA or PVC

Recommended mounting hardware: M3 pan head screw (#4-40 pan head screw)

TECHNICAL DATA

Center to Center Spacing: 12 mm (0.472 in.)
Nominal Cross Section: XBS versions: 1 mm² (1550 mils²)
4.8 versions: 2.5 mm² (3874 mils²)
6.3 versions: 6 mm² (9299 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group
File No.: E69841	UL	25	300	10 max.	B,C
File No.: LR24322	CSA	25	300	10 max.	B,D,E

6.3 and XBS versions are CSA certified for 25 A and 12 AWG max.
UL: 6.3 mm version tab is UL approved for 25A
UL: 4.8 mm version tab is UL approved for 15A
Rated Impulse Withstand Voltage: 4000 V

MATERIAL

Self extinguishing to UL 94, V-2, off-white

		PVC version	PA version
MOLDING:	**PVC version:** plasticised PVC transparent **PA version:** polyamide		
TEMPERATURE LIMITS:	**Short time:**	80°C (176°F)	140°C (284°F)
	Continuous:	70°C (158°F)	RTI 105°C (221°F)
	Low limit:	-10°C (14°F)	-40°C (-40°F)
	Comparative Tracking Index:	CTI > 400	CTI > 600

Tabs: nickel plated copper alloy, 2.8 mm (0.110 in.), 4.8 mm (0.187 in.) or 6.3 mm (0.250 in.)

ACCESSORIES

- ISO Insulating Sleeves.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

CN: *Consecutive Numbering (hot stamped Black numbers)*
SM: *Special Marking (please provide sketch)*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
(Plated components: tab)

HOW TO ORDER

	MATERIAL:	TAB SIZE:	POLES:	OPTIONS:
	polyamide: PA **PVC: PVC**	**4.8, 6.3, XBS**	**01 to 12**	**CN, SM, G05, G30, S30**

401- _____ **-** _____ **/** _____ **-** _____

■ **www.weco.ca/products/401**

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

Uninsulated Tabs

Types GST tabs

	4.8 mm	6.3 mm	2.8/6.3 mm
	GST-00	GST-0	GST-0-2.8/6.3
	GST-045	GST-45	GST-45-2.8/6.3
	GST-090	GST-90	GST-90-2.8/6.3
	GST-00-00	GST-00	GST-00-2.8/6.3
	GST-045-045	GST-45-45	GST-45-45-2.8/6.3
	GST-090-090	GST-90-90	GST-90-90-2.8/6.3
	GST-S-00	GST-S-0	GST-S-0-2.8/6.3
	GST-S-045	GST-S-45	GST-S-45-2.8/6.3
	GST-S-090	GST-S-90	GST-S-90-2.8/6.3
	GST-SAK-00	GST-SAK-0	GST-SAK-0-2.8/6.3
	GST-SAK-045	GST-SAK-45	GST-SAK-45-2.8/6.3
	GST-SAK-090	GST-SAK-90	GST-SAK-90-2.8/6.3

TECHNICAL DATA

Nominal Cross Section: 2.8 mm: 1 mm² (1550 mils²)
4.8 mm: 2.5 mm² (3874 mils²)
6.3 mm: 6 mm² (9299 mils²)

MATERIAL

Tabs: nickel plated copper alloy, Tab widths: 2.8 mm/6.3 mm (0.110 in./0.250 in.), 4.8 mm (0.187 in.) and 6.3 mm (0.250 in.)
Tab thickness: 0.8 mm (0.03 in.) / Tab mounting hole diameter: 4.2 mm (0.16 in.)

GST tabs are made of nickel plated copper alloy and are provided in industry standard tab widths.

These tabs are used in 307-PCM and 3070-PCM terminal strips and are also available as components. They are available in 2.8 mm (0.110 in), 4.8 mm (0.187 in.) and 6.3 mm (0.250 in.) widths.

URL

MULTI-POINT TAB AND SCREW CONNECTORS

Series 32	
322-A-2.8	www.weco.ca/products/322-A-2.8
Series 42	
422	www.weco.ca/products/422
423	www.weco.ca/products/423
424	www.weco.ca/products/424
426	www.weco.ca/products/426
Series 43	
432-Z	www.weco.ca/products/432-Z
433	www.weco.ca/products/433
Series 307-PCM and Series 3070-PCM	
3070-PCM	www.weco.ca/products/3070-PCM
307-PCM	www.weco.ca/products/307-PCM
Series 98-F and Series 98-M	
982-F	www.weco.ca/products/982-F
982-M	www.weco.ca/products/982-M
983-F	www.weco.ca/products/983-F
983-M	www.weco.ca/products/983-M
Series 970-B-2.8	www.weco.ca/products/970-B-2.8 (-DS)

INSULATED TAB TERMINAL STRIPS

Series 400	
444-B	www.weco.ca/products/444-B
401	www.weco.ca/products/401
404	www.weco.ca/products/404
406	www.weco.ca/products/406
407	www.weco.ca/products/407
408	www.weco.ca/products/408

COMBINATION INSULATED TAB - SOLDER TERMINAL STRIPS

Series 400-LF	
444-BLF	www.weco.ca/products/444-BLF
401-LF	www.weco.ca/products/401-LF

TAB AND RECEPTACLE HOUSINGS

Series 440	
440	www.weco.ca/products/440
Series 411	
411-B	www.weco.ca/products/411-B
411-BML	www.weco.ca/products/411-BML
411-S	www.weco.ca/products/411-S

UNINSULATED TABS

Series GST	
GST-00	www.weco.ca/products/GST-00
GST-0	www.weco.ca/products/GST-0
GST-0-2.8/6.3	www.weco.ca/products/GST-0-2.8/6.3
GST-045	www.weco.ca/products/GST-045
GST-45	www.weco.ca/products/GST-45
GST-45-2.8/6.3	www.weco.ca/products/GST-45-2.8/6.3
GST-090	www.weco.ca/products/GST-090
GST-90	www.weco.ca/products/GST-90
GST-90-2.8/6.3	www.weco.ca/products/GST-90-2.8/6.3
GST-00-00	www.weco.ca/products/GST-00-00
GST-0-0	www.weco.ca/products/GST-0-0
GST-0-0-2.8/6.3	www.weco.ca/products/GST-0-0-2.8/6.3
GST-045-045	www.weco.ca/products/GST-045-045
GST-45-45	www.weco.ca/products/GST-45-45
GST-45-45-2.8/6.3	www.weco.ca/products/GST-45-45-2.8/6.3
GST-090-090	www.weco.ca/products/GST-090-090
GST-90-90	www.weco.ca/products/GST-90-90
GST-90-90-2.8/6.3	www.weco.ca/products/GST-90-90-2.8/6.3
GST-S-00	www.weco.ca/products/GST-S-00
GST-S-0	www.weco.ca/products/GST-S-0
GST-S-0-2.8/6.3	www.weco.ca/products/GST-S-0-2.8/6.3
GST-S-045	www.weco.ca/products/GST-S-045
GST-S-45	www.weco.ca/products/GST-S-45
GST-S-45-2.8/6.3	www.weco.ca/products/GST-S-45-2.8/6.3
GST-S-090	www.weco.ca/products/GST-S-090
GST-S-90	www.weco.ca/products/GST-S-90
GST-S-90-2.8/6.3	www.weco.ca/products/GST-S-90-2.8/6.3
GST-SAK-00	www.weco.ca/products/GST-SAK-00
GST-SAK-0	www.weco.ca/products/GST-SAK-0
GST-SAK-0-2.8/6.3	www.weco.ca/products/GST-SAK-0-2.8/6.3
GST-SAK-045	www.weco.ca/products/GST-SAK-045
GST-SAK-45	www.weco.ca/products/GST-SAK-45
GST-SAK-45-2.8/6.3	www.weco.ca/products/GST-SAK-45-2.8/6.3
GST-SAK-090	www.weco.ca/products/GST-SAK-090
GST-SAK-90	www.weco.ca/products/GST-SAK-90
GST-SAK-90-2.8/6.3	www.weco.ca/products/GST-SAK-90-2.8/6.3

E Grounding Terminals and Ceramic Terminal Blocks

WECO connectors have a wide variety of applications. You will find them in household appliances, in power tools, and in medical equipment, to name a few. They are invisible but essential components of industries ranging from telecommunications to high-risk mining.

This section illustrates terminal types which, by their very nature are designed to handle the relatively high voltages and currents common to potentially dangerous working conditions.

These are WECO's "front-line" terminals, for use in applications where the going gets tough! Our ceramic, explosion proof and terminals for hazardous applications are essential components where furnace and other heating equipment, or electrical motor applications requiring a high degree of safety are involved.

All our products are designed according to international requirements, particularly to VDE regulations and approvals obtained in various countries.

Euro-Style Ceramic Terminal Blocks

		page
Series DIN-46284-ST	DIN-46284-ST (-HDS)	57
Series 401-B	4010-B / 4011-B (-HDS)	57

Ceramic Terminal Block for high temperature applications

Series 560	560-K4DF-V2A	58

Ceramic Motor Terminal Block

Series 71	714	58

URL

URL	(web links for others series or variations of above series)	59

***** WECO Electrical Connectors Inc. features in this Supplement Catalog a small portion of its products. To see our complete product listing, please consult our URL (web) links that will bring you directly to the data information of all our products.

Series DIN-46284-ST

Type DIN-46284-ST (-HDS)

13 mm spacing • 2 and 3 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= 20 (0.79) 2 pole / 34 (1.33) 3 pole*

DESCRIPTION

The porcelain molding for these terminal blocks was designed to provide excellent resistance to high temperatures and the ability to allow high current voltage ratings.

The DIN-46284 standard pertains to two- and three-pole appliance terminals with 380 V AC and 440 V DC They are supplied with a stainless steel wire protector to prevent damage to stranded wiring.

Recommended mounting hardware: M4 cheese head screw (#8-32 fillister head screw).

TECHNICAL DATA

Center to Center Spacing: 13 mm (0.512 in.)
Wire Stripping length: 7 mm (0.28 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: LR24322	CSA	20	300	18-12	B,C,D,E	max. 0.51 Nm

International Approvals: N

MATERIAL

MOLDING: Porcelain KER 111, DIN 40685, white
TEMPERATURE LIMITS: Upper Temperature Limit: 200°C (392°F)
Terminal Body: nickel plated brass
Wire Protector: stainless steel
Screw: yellow chromate passivated, zinc plated, steel, M3

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

BS: *Brass Screws*
G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*

HOW TO ORDER

POLES:		WIRE PROTECTOR:	OPTIONS:
2 and 3		**with: - HDS**	**BS, G05, G30, S30**
	-DIN-46284-ST	**-**	

■ **www.weco.ca/products/DIN-46284-ST (-HDS)**

Series 401-B

Type 4010-B /4011-B (-HDS)

18 mm and 20 mm spacing • 2 and 3 poles

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= 35 (1.38) 2 pole / 50 (1.97) 3 pole*

DESCRIPTION

The porcelain molding for these terminal blocks was designed to provide excellent resistance to high temperatures and the ability to allow high current voltage ratings.

Series 401-B can accept up to 61 amperes at 500 volts because of its 18 mm spacing and heavy duty metal components. 4010-B: recommended mounting hardware: M5 cheese head screw (#10-24 fillister head screw), 4011-B: recommended mounting hardware: M4 cheese head screw (#8-32 fillister head screw).

TECHNICAL DATA

Center to Center Spacing: 18 mm (0.71 in.) for three poles - 20 mm (0.79 in.) for two poles
Wire Stripping length: 9 mm (0.35 in.)
Nominal Cross Section: 10 mm² (15498 mils²)
Recommended operating current voltage and wire range: 500 V
(maximum load at 40°C (104°F) ambient temperature)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Application Group	Screw Tightening Torque
File No.: E69841	UL	50	600	14-8	B,C,D	max. 10 lbfin.

International Approvals: N

MATERIAL

MOLDING: Porcelain KER 111, DIN 40685, white
TEMPERATURE LIMITS: Upper Temperature Limit: 200°C (392°F)
Terminal Body: nickel plated brass
Wire Protector: stainless steel
Screw: yellow chromate passivated, zinc plated, steel, M4

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
Note: Plated component: terminal body

HOW TO ORDER

	POLES:		WIRE PROTECTOR:		OPTIONS:
	2 poles: 0 **3 poles: 1**		**with: - HDS**		**G05, G30, S30**
401		**-B**		**-**	

■ **www.weco.ca/products/4010-B /4011-B (-HDS)**

Ceramic Terminal Block for high temperature applications

Series 560

Type 560-K4DF-V2A

22.5 mm • 2 poles

Lock washer

Binding Clip D

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 10 mm*

DESCRIPTION

Series 560 ceramic terminal blocks offer a variety of models for explosion-proof or high temperature applications. The 560-K4DF-V2A is supplied with stainless steel components and can be used at temperatures up to 500°C (932°F).

A 17 mm wide by 2 mm high slot has been molded into the base of each terminal block. This slot can accommodate a suitably shaped rail on the mounting surface to allow securing the block and preventing possible movement caused during the tightening of the screw during the wiring operation.

A variety of other hardware components are available to meet other wiring needs.

• **Recommended mounting hardware:** M4 pan head screw (#8-32 pan head screw).

TECHNICAL DATA

Center to Center Spacing: 22.5 mm (0.886 in.) **Wire Stripping length:** 8 mm (0.31 in.)
Nominal Cross Section: 2.5 mm² (3874 mils²)

APPROVAL INFORMATION

	Rating	Current (A)	Voltage (V)	AWG	Screw Tightening Torque
File No.: E69841	UL	20	300	20-12	max. 10 lbfin.
File No.: LR24322	CSA	25	300	20-12	max. 1.2 Nm

International Approvals: Ⓝ

MATERIAL

MOLDING: Steatite, KER 220 DIN 40685, white
TEMPERATURE LIMITS: Upper Temperature Limit: 500°C (932°F)
Terminal Body: stainless steel
Screw: stainless steel, M4
Lock Washer: stainless steel
Binding Clip: stainless steel

ACCESSORIES

• Mounting Rail, Type I-16.

OPTIONS *See How to Order. If more than one option is required, please separate each option with a dash (-).*

G05: *Gold Plating (5 micro inches)*
G30: *Gold Plating (30 micro inches)*
S30: *Silver Plating (30 micro inches)*
Note: Plated component: terminal body

HOW TO ORDER

	OPTIONS: G05, G30, S30
560-K4DF-V2A-	

■ **www.weco.ca/products/560-K4DF-V2A**

Ceramic Motor Terminal Block

Series 71

Type 714

23 mm • 6 poles

L = 64.0 (2.52)
W = 40.0 (1.57)
H = 31.0 (1.22)
A = 23.0 (0.91)
B = M5
C = 7.0 (0.28)

Dimensions: mm (in.) *When locating connector, allow 0.5 mm clearance around it for process-induced variations.*
Length of Connector (L) L *= No. of Poles x Center to Center Spacing + 10 mm*

DESCRIPTION

Series 71 steatite motor terminal boards have two recessed mounting holes; they feature separating walls molded between each clamping bolt to help prevent unwanted contact between adjacent connections. They are supplied with plain washers and brass nuts.

• **Recommended mounting hardware:** M6 pan head screw (1/4-20 fillister head screw).

TECHNICAL DATA

Center to Center Spacing: 23 mm (0.91 in.)
Nominal Cross Section: 2 x 2.5 mm² (2 x 3874 mils²)

Recommended operating current voltage and wire range:	Voltage (V)	Current (A)	AWG
	500	25	14

(maximum load at 40°C (104°F) ambient temperature)

MATERIAL

MOLDING: Steatite KER 220, DIN 40685, white
TEMPERATURE LIMITS: Upper Temperature Limit: 240°C (464°F)
Threaded Post: blank brass, M5
Nut: blank brass
Washer: yellow chromate passivated, zinc plated steel.

ACCESSORIES

• Jumpers, Series 75.

HOW TO ORDER

714

■ **www.weco.ca/products/714**

EURO-STYLE TERMINAL BLOCKS

Series DIN-46284-ST	
DIN-46284-ST (-HDS)	www.weco.ca/products/DIN-46284-ST (-HDS)
Series 401-B	
4010-B (-HDS)	www.weco.ca/products/4010-B (-HDS)
4011-B (-HDS)	www.weco.ca/products/4011-B (-HDS)
Series 4000	
4001	www.weco.ca/products/4001
4002	www.weco.ca/products/4002
Series 400-B	
4002-B	www.weco.ca/products/4002-B
4003-B	www.weco.ca/products/4003-B
Series 31	
313	www.weco.ca/products/313
316	www.weco.ca/products/316
317	www.weco.ca/products/317
319	www.weco.ca/products/319
Series 4005	
4005-A (-HDS)	www.weco.ca/products/4005-A (-HDS)

CERAMIC TERMINAL BLOCKS

Series 560	
560-R4	www.weco.ca/products/560-R4
560-R4F	www.weco.ca/products/560-R4F
560-K4DF-V2A	www.weco.ca/products/560-K4DF-V2A
560-K4C	www.weco.ca/products/560-K4C
560-K4CF	www.weco.ca/products/560-K4CF
560-K4DF	www.weco.ca/products/560-K4DF
560-EN-K4CF	www.weco.ca/products/560-EN-K4CF
560-EN-K4DF	www.weco.ca/products/560-EN-K4DF

GROUNDING TERMINALS

Series DFG-EN	
DFG-1-EN	www.weco.ca/products/DFG-1-EN
DFG-2-EN	www.weco.ca/products/DFG-2-EN
DFG-3-EN	www.weco.ca/products/DFG-3-EN
DFG-5-EN	www.weco.ca/products/DFG-5-EN
DFG-1-E-EN	www.weco.ca/products/DFG-1-E-EN
DFG-2-E-EN	www.weco.ca/products/DFG-2-E-EN
DFG-3-E-EN	www.weco.ca/products/DFG-3-E-EN
DFG-5-E-EN	www.weco.ca/products/DFG-5-E-EN
Series GSB	
GSB-0-B	www.weco.ca/products/GSB-0-B
GSB-1-B	www.weco.ca/products/GSB-1-B
GSB-2-B	www.weco.ca/products/GSB-2-B
GSB-3-B	www.weco.ca/products/GSB-3-B
GSB-4-B	www.weco.ca/products/GSB-4-B
Series DFB-EN	
DFB-1-EN	www.weco.ca/products/DFB-1-EN
DFB-2-EN	www.weco.ca/products/DFB-2-EN
DFB-3-EN	www.weco.ca/products/DFB-3-EN
DFB-5-EN	www.weco.ca/products/DFB-5-EN
Series DFD-EN	
DFD-1-EN	www.weco.ca/products/DFD-1-EN
DFD-3-EN	www.weco.ca/products/DFD-3-EN
DFD-5-EN	www.weco.ca/products/DFD-5-EN
DFD-6-EN	www.weco.ca/products/DFD-6-EN
Series M	
8-MS	www.weco.ca/products/8-MS
8-MB	www.weco.ca/products/8-MB
8-MG	www.weco.ca/products/8-MG
9-MS	www.weco.ca/products/9-MS
9-MB	www.weco.ca/products/9-MB
9-MG	www.weco.ca/products/9-MG
10-MS	www.weco.ca/products/10-MS
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10-MG	www.weco.ca/products/10-MG
11-MB	www.weco.ca/products/11-MB
11-MG	www.weco.ca/products/11-MG
12-MS	www.weco.ca/products/12-MS
12-MB	www.weco.ca/products/12-MB
12-MG	www.weco.ca/products/12-MG
Series MU	
17-MUB	www.weco.ca/products/17-MUB
17-MUG	www.weco.ca/products/17-MUG
18-MUB	www.weco.ca/products/18-MUB
18-MUG	www.weco.ca/products/18-MUG
19-MUB	www.weco.ca/products/19-MUB
19-MUG	www.weco.ca/products/19-MUG
20-MUB	www.weco.ca/products/20-MUB
20-MUG	www.weco.ca/products/20-MUG
Series DF	
51-DFB	www.weco.ca/products/51-DFB
51-DFG	www.weco.ca/products/51-DFG
52-DFS	www.weco.ca/products/52-DFS
52-DFB	www.weco.ca/products/52-DFB
52-DFG	www.weco.ca/products/52-DFG
54-DFS	www.weco.ca/products/54-DFS
54-DFB	www.weco.ca/products/54-DFB
54-DFG	www.weco.ca/products/54-DFG
57-DFB	www.weco.ca/products/57-DFB
57-DFG	www.weco.ca/products/57-DFG
58-DFS	www.weco.ca/products/58-DFS
58-DFB	www.weco.ca/products/58-DFB
58-DFG	www.weco.ca/products/58-DFG
Series MD, MUD, DFD	
29-MD	www.weco.ca/products/29-MD
30-MD	www.weco.ca/products/30-MD
31-MD	www.weco.ca/products/31-MD
32-MD	www.weco.ca/products/32-MD
33-MUD	www.weco.ca/products/33-MUD
34-MUD	www.weco.ca/products/34-MUD
35-MUD	www.weco.ca/products/35-MUD
36-MUD	www.weco.ca/products/36-MUD
37-MUD	www.weco.ca/products/37-MUD
DFD-1	www.weco.ca/products/DFD-1
DFD-3	www.weco.ca/products/DFD-3
DFD-4	www.weco.ca/products/DFD-4
DFD-5	www.weco.ca/products/DFD-5
DFD-6	www.weco.ca/products/DFD-6

CERAMIC DOUBLE ROW TERMINAL BLOCKS

Series 338 and 359	
338	www.weco.ca/products/338
338-F	www.weco.ca/products/338-F
359	www.weco.ca/products/359
359-F	www.weco.ca/products/359-F
Series 339-K and 360-K	
339-K	www.weco.ca/products/339-K
339-KF	www.weco.ca/products/339-KF
360-K	www.weco.ca/products/360-K
360-KF	www.weco.ca/products/360-KF
339-K-M	www.weco.ca/products/339-K-M
339-K-MU	www.weco.ca/products/339-K-MU
Series 34	
34	www.weco.ca/products/34
34-F	www.weco.ca/products/34-F
34-M	www.weco.ca/products/34-M
34-MU	www.weco.ca/products/34-MU
Series 36	
36	www.weco.ca/products/36
36-M	www.weco.ca/products/36-M
Series 603, 604, 606, 607, and 608	
603-M	www.weco.ca/products/603-M
603-MU	www.weco.ca/products/603-MU
603-DF	www.weco.ca/products/603-DF
604-M	www.weco.ca/products/604-M
604-MU	www.weco.ca/products/604-MU
604-DF	www.weco.ca/products/604-DF
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607-DF	www.weco.ca/products/607-DF
608-MU	www.weco.ca/products/608-MU
608-DF	www.weco.ca/products/608-DF
Series 2-DIN	
2-DIN-46281	www.weco.ca/products/2-DIN-46281

MOTOR TERMINAL BLOCKS

Series 107	
1070-A	www.weco.ca/products/1070-A
1070-B	www.weco.ca/products/1070-B
1070-C	www.weco.ca/products/1070-C
1070-D	www.weco.ca/products/1070-D
1071-A	www.weco.ca/products/1071-A
1071-B	www.weco.ca/products/1071-B
1071-C	www.weco.ca/products/1071-C
1071-D	www.weco.ca/products/1071-D
1072-A	www.weco.ca/products/1072-A
1072-B	www.weco.ca/products/1072-B
1072-C	www.weco.ca/products/1072-C
1072-D	www.weco.ca/products/1072-D
1073-A	www.weco.ca/products/1073-A
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1073-C	www.weco.ca/products/1073-C
1073-D	www.weco.ca/products/1073-D
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711	www.weco.ca/products/711
714	www.weco.ca/products/714
715	www.weco.ca/products/715
716	www.weco.ca/products/716
717	www.weco.ca/products/717
Series KS	
KS-7-A	www.weco.ca/products/KS-7-A
KS-8-A	www.weco.ca/products/KS-8-A
KS-10-A	www.weco.ca/products/KS-10-A
KS-14-A	www.weco.ca/products/KS-14-A
KS-18-A	www.weco.ca/products/KS-18-A

SHIPBOARD TERMINALS

Series A-2.2 and A-3.1	
A-2.2-MU	www.weco.ca/products/A-2.2-MU
A-2.2-DF	www.weco.ca/products/A-2.2-DF
A-3.1-MU	www.weco.ca/products/A-3.1-MU
A-3.1-DF	www.weco.ca/products/A-3.1-DF
A-3.1-DREN	www.weco.ca/products/A-3.1-DREN

Accessories

Coding Keys

Coding with the 122-A-111 and 122-M-221

DESCRIPTION

Coding Keys are available for connectors of series 11 and 12. Coding keys are easily inserted into plug and header.

- **Utility:**
  - Prevent interchangeability between plug and header
  - Prevent backwards insertion of plug
  - Prevent misaligned connections between plug and header
  - Maintain physical integrity during plugging and depplugging
  - Allows safe multi-cycle use of plug and header
  - Prevent metal contact when a coded plug is inserted in the wrong coded header
  - Prevent short circuit, fire, damages, customer dissatisfied.

The coding keys are available in red or gray color and can be ordered separately. Please find the ordering box below. The coding keys are packaged in strips of 12 keys.

HOW TO ORDER

	COLOR: **Red: leave blank** **Grey: 001**
120-K	

■ **www.weco.ca/products/Coding Keys**

Options

Strain Relief

Number of Poles: 2 to 8

Poles	mm / [in.]
2	10.0 / [0.394]
3	15.0 / [0.590]
4	20.0 / [0.787]
5	25.0 / [0.984]
6	30.0 / [1.181]
7	35.0 / [1.378]
8	40.0 / [1.575]

DESCRIPTION

Strain Relief is used to insure a reliable attachment of the wire bundle to the plug.
• **Usage:** For 120-A-111(2 to 8 poles) and 121-A-111 (2 to 8 poles). Larger number of poles or larger spacing (122-A-111) are available upon request.
The Strain Relief for 02 & 03 -pole parts can withstand 11 lb peel force.
The Strain Relief for 04 to 08-pole is able to resist 25 lb peel force.
The Strain Relief is a factory installed option.

MATERIAL

MOLDING: Polyamide, self extinguishing to UL 94, V-0, grey.

HOW TO ORDER

To order the strain relief, please refer to 120-A-111 and 121-A-111.

■ **www.weco.ca/products/Strain Relief**

U.S.A. tel (518) 298-4810 fax: (518) 298-5938 **CANADA** tel: (514) 694-9136 fax: (514) 694-0956 **BRAZIL** tel: (55) 41.3018.3530 fax: (55) 41.3018.3530 **www.weco.ca**

www.weco.ca/products/BST Self Adhesive Marking Strips

www.weco.ca/products/ISO Insulating Sleeves, Type 23
www.weco.ca/products/ISO Insulating Sleeves, Type 25
www.weco.ca/products/ISO Insulating Sleeves, Type 250

www.weco.ca/products/Jumper, Type 970-J1
www.weco.ca/products/Jumper, Type 970-J2

www.weco.ca/products/Type 970-WG

www.weco.ca/products/BST Marking Strips

www.weco.ca/products/Covers and BEF Retaining Clips, Series 98-A

www.weco.ca/products/Insulation Sockets ISO-900

www.weco.ca/products/LST Single Pins

www.weco.ca/products/Interlocking Plate, Type 97-P

www.weco.ca/products/Interlocking Plates, Type 95-P

www.weco.ca/products/Jumper Combs, Type 302-J
www.weco.ca/products/Jumper Combs, Type 323-J
www.weco.ca/products/Jumper Combs, Type 324-J
www.weco.ca/products/Jumper Combs, Type 327-J

www.weco.ca/products/Covers and Base Plates, Type 323

www.weco.ca/products/Covers and Securing pins, Type 3070

www.weco.ca/products/Jumper, Type 307-V

www.weco.ca/products/Jumper, Type 307-VS

www.weco.ca/products/Module Housing Accessories,
Side Panel, Type M-512
www.weco.ca/products/Module Housing Accessories, Cover, Type M-512
www.weco.ca/products/ Housing Accessories,
Marking Adaptor, Type M-512

www.weco.ca/products/Cable Lugs, Type KA-2.5-A
www.weco.ca/products/Cable Lugs, Type KA-8-A
www.weco.ca/products/Cable Lugs, Type KA-10-A
www.weco.ca/products/Cable Lugs, Type KA-16-A
www.weco.ca/products/Cable Lugs, Type KA-35-A

www.weco.ca/products/Jumpers, Type BR-A-7
www.weco.ca/products/Jumpers, Type BR-6
www.weco.ca/products/Jumpers, Type BR-A-8
www.weco.ca/products/Jumpers, Type BR-A-10
www.weco.ca/products/Jumpers, Type BR-A-14
www.weco.ca/products/Jumpers, Type BR-A-18

www.weco.ca/products/Jumpers, Type 751-A
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www.weco.ca/products/DIN Mounting Rails, Type H-15

www.weco.ca/products/Mounting Rail Support, Type DIN-ST-MRS

www.weco.ca/products/Shim, Type B-DIN-46281

www.weco.ca/products/Interlocking Plates, Type 974-P

www.weco.ca/products/Strain Relief

www.weco.ca/products/Coding Keys

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Application group and distances between the metal parts, determine the voltage rating for terminal blocks. These groups are marked by letters A, B, C, D, E. depending on environment pollution degree. UL and CSA standards for Terminal Blocks (UL1059, CSA C22.2 No. 158) have presented the minimum distances in following tables.

Table from UL1059

Table 8.1

Minimum acceptable spacings

Application	Potential involved in volts	Spacings, in inches (mm) between uninsulated live parts of opposite polarity; and between an uninsulated live part and a grounded part including any mounting surface			
		Through air		Over surface	
A. Service – including dead-front switchboards, panelboards, service equipment, and the like	51 – 150	1/2	(12.7)	3/4	(19.1)
	151 – 300	3/4	(19.1)	1 – 1/4	(31.8)
	301 – 600	1	(25.4)	2	(50.8)
B. Commercial appliances including business equipment, electronic data processing equiment, and the like	51 – 150	1/16a	(1.6)[a]	1/16[a]	(1.6)[a]
	151 – 300	3/32a	(2.4)[a]	3/32[a]	(2.4)[a]
	301 – 600	3/8	(9.5)	1/2	(12.7)
C. Industrial, general	51 – 150	1/8a	(3.2)[a]	1/4	(6.4)
	151 – 300	1/4	(6.4)	3/8	(9.5)
	301 – 600	3/8	(9.5)	1/2	(12.7)
D. Industrial, devices having limited ratingsb	51 – 300	1/16a	(1.6)[a]	1/8a	(3.2)[a]
	301 – 600	3/16a	(4.8)[a]	3/8	(9.5)

NOTES

1) A slot, groove, or similar spacing, 0.013 in. (0.33 mm) wide or less in the contour of insulating material is to be disregarded.

2) An air space of 0.013 in. (0.33 mm) or less between a live part and an insulating surface is to be disregarded for the purpose of measuring over surface spacings.

a The spacing between field wiring terminals of opposite polarity and the spacing between a field wiring terminal and a grounded dead metal part shall not be less than 1/4 in. (6.4 mm) if short-circuiting or grounding of such terminals may result form projecting strands of wire. Examples of means the prevent stray wire strand contact include rating the terminal block for solid wire only, and design features such as recessed terminal pockets.

b The spacings are applicable to a terminal block for use only in or with industrial control equipment where the load on any single circuit of the terminal block does not exceed 15 amperes at 51 – 150 volts, 10 amperes at 151 – 300 volts, 5 amperes at 301 – 600 volts, or the maximum ampere rating, whichever is less.

Table from CSA C22.2 No.158

Table 1

Minimum acceptable spacings

Application	Volts	Spacings, in mm between uninsulated live parts of opposite polarity, uninsulated live parts, and uninsulated grounded parts other than the enclosure or exposed metal part.	
		Through air or oil	Over surface
A. Service (power circuits) including dead-front switchboards, panel-boards, service equipment, etc.	0 – 150	12.5	1.6[b]
	151 – 300	19[a]	2.4[b]
	301 – 600	25	12.5
B. Commercial appliances including business equipment, electronic data processing equipment, etc.	0 – 150	1.6[b]	19[a]
	151 – 300	2.4[b]	31[a]
	301 – 600	9.5	50[a]
C. General industrial	0 – 150	3.2[b]	6.3
	151 – 300	6.3	9.5
	301 – 600	9.5	12.5
	601 – 1000	14	21.5
	1001 – 1500	17.8	30.5
D. Industrial, devices having limited ratings	51 – 300	1.5[b]	3.0[b]
	301 – 600	4.6[b]	9.4
E.Special components[c]	0 – 150	1.6[b]	.6[b]
	151 – 300	1.6[b]	3.2[b]
	301 – 600	4.7[b]	9.5

NOTES

a The spacing through air and over surface between live parts and grounded metal parts including the enclosure shall be not less than 12.5 mm for 51 – 250 V and 25 mm for 251 – 600 V.

b The spacing between conductor terminals of opposite polarity and spacing between a conductor terminal and grounded non-current-carrying metal part shall be not less than 6.3 mm if short-circuiting or grounding of such terminals may result from projecting strands of conductor.

c The special components spacings shall be applicable to a terminal block for use with equipment of limited rating, as permitted by the applicable Part II Standard covering the end product in which the terminal block is used.

Terms and Conditions

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Unless otherwise agreed in writing by WECO Electrical Connectors Inc. ("WECO"), these terms and conditions of sale shall prevail over any terms or conditions stipulated, incorporated or referred to by the Buyer in his order or negotiations or otherwise. The failure of WECO to object to provisions contained in any purchase order or other communication from the buyer shall not be construed as a waiver of these conditions nor as an acceptance of any other terms and conditions. No orders shall be binding upon WECO until accepted in writing by WECO at its Canadian head office.

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ARTICLE NUMBER e.g.20.874.002

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standard and custom terminal blocks

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- Terminal Blocks for PCB
- Rail Mounted Electronic Modules
- Terminal Strips for Panel/Chassis Mounting
- Tab and Solder Connectors for Panel/Chassis Mounting
- Grounding Terminals & Ceramic Terminal Blocks
- Surface Mount Technology

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323-P (-DS)

WECO introduces Series 300-P Euro-Style Terminal strips for Printed Circuit Boards, mainly used when applications require microprocessor control of electrical equipment.

LANGUAGES

- Deutsch
- English
- Español
- Français
- Português

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PRODUCTS ▪ Competitor Cross-Reference

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COMPETITOR CROSS-REFERENCE

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Electronic Modules
Connectors
Terminal Strips
Tab Connectors
Ceramic Terminal Blocks

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