

## FEATURES AND SPECIFICATIONS



## 4.00mm Sealed Rectangular Connectors, 84-Way

**85070** Receptacle Housing

**85071** Plug Housing

**33000** Male Blade

**Crimp Terminal**

**33012** Female Receptacle

**Crimp Terminal**

### Highly reliable and high-performance SRC connectors save on applied costs

The SRC connector system was developed to meet the need for a rugged, environmentally sealed connector system, supporting both low-level signals as well as current up to 40.0 amperes. The first connector in the standard line offered is the 84-way connector. The product uses proven and very successful Molex MX150 terminals. Together with the higher connector pin count and terminal retention forces (connector system retention greater than 200N), the performance of the SRC connector surpasses other products on the market. The Terminal Position Assurance (TPA) design assures that crimped terminal leads are properly locked into the connector (TPA will not be achieved if cover TPA will not seat into final lock position and the connector system will not latch if the terminal is not locked properly into position).

### Features and Benefits

- Pre-assembled connector housing, seals, TPA components and matte-seal cap shipped in one piece provide applied labor and cost savings
- Easy terminal insertion and extraction ensure quick, low-cost field repairs using common screw driver, needle nose pliers and terminal extraction tool
- Integral, two-way matte and interface seals exceeds IP69K "waterproof" demands as a true sealed connector system tested under submersed conditions and in various fluids

A matte-seal cap protects, securely retains and provides strain relief to the wire-seal interface. A single-handed lever lock secures the connection between the connectors.

Designed initially for the non-automotive transportation market Molex's SRC connector may easily be applied to other markets due to the flexibility and capabilities of the product. Tooling solutions include FineAdjust™ crimp-press applicators for high-volume production, as well as hand tools for low volume production and field repairs.

Molex is in the process of developing a full range of sealed connectors.

For additional product information, please visit: [www.molex.com/link/src.html](http://www.molex.com/link/src.html).

- Superior electrical and mechanical performance capabilities (See product specification) surpasses performance of most other competitive products in the market
- Simple crimp, poke and plug application eliminates the need to crimp individual wire seals
- Unused circuits can be blocked using plastic seal plugs and facilitating flexibility of sealing unused circuits without adding complexity to part numbers and customer inventory



Receptacle (Female) Series 85070  
Plug (Male) Series 85071

## SPECIFICATIONS

### Reference Information

Packaging: Tray  
Terminals: Reel and loose piece  
Designed In: Millimeters

### Electrical

Voltage: 500V  
Current:  
18.0 A\*(USCAR-2 Rev. 3)  
16.0 A\*(VDA AK addition 1, 1996)  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1500V min.  
Insulation Resistance: 20 Megohms min.

\*Depending on circuit size and wire gauge

### Mechanical

Contact Insertion Force: 30N max.  
Contact Retention to Housing: 50N min.  
Mating Force: 250N max.  
Unmating Force: 250N max.  
Durability:  
Tin Plating – 25 cycles  
Gold Plating – 100 cycles  
Sealing:  
IEC – IP 69K  
IEC – IP 68

### Physical

Housing: Nylon  
Contact: Copper (Cu) Alloy  
Plating: Tin (Sn) or Gold (Au)  
Contact Area — Tin (Sn) or Gold (Au)  
Operating Temperature: -55°C to +125°C  
RoHS Compliant: Yes

## APPLICATIONS

- Agriculture equipment
- Construction equipment
- Recreational equipment
- Marine equipment
- Commercial vehicle





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**85070** Receptacle Housing

**85071** Plug Housing

**33000** Male Blade

**Crimp Terminal**

**33012** Female Receptacle

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**Receptacle Housings**

Order No.	Circuits	Gender	Material	Plant No. for Samples
85070-0500	84	Female	Nylon	3109, 6201, 1201, 1399, 3102, 5102

**Plug Housing**

Order No.	Circuits	Gender	Material	Plant No. for Samples
85071-0100	84	Male	Nylon	3109, 6201, 1201, 1399, 3102, 5102

**Female Receptacle Crimp Terminals (tin plated)**

Order No.	AWG	mm <sup>2</sup>	Hand Crimp Tool	Applicator	Payoff Direction (Wind)	Plant No. for Samples
33012-2003	22		63811-6000	N/A	Right ('B')	3109 6201 1201 1399 3102 5102
		0.5	63811-6200	N/A	Right ('B')	
33012-3003	22		63811-6000	69300-1000	Left ('D')	
		0.5	63811-6200	63900-1000	Left ('D')	
33012-2002	20/18		63811-6000	N/A	Right ('B')	
		0.75/1	63811-6200 (0.75mm <sup>2</sup> ), 63811-6100 (1mm <sup>2</sup> )	N/A	Right ('B')	
33012-3002	20/18		63811-6000	63900-0900 (20 AWG), 63900-0800 (18AWG)	Left ('D')	
		0.75/1	63811-6200 (0.75mm <sup>2</sup> ), 63811-6100 (1mm <sup>2</sup> )	63900-0900 (0.75mm <sup>2</sup> ), 63900-0800 (1mm <sup>2</sup> )	Left ('D')	
33012-2001	16/14		63811-5900	N/A	Right ('B')	
		1.5	63811-6100	N/A	Right ('B')	
33012-3001	16/14		63811-5900	63900-0700	Left ('D')	
		1.5	63811-6100	63900-0700	Left ('D')	

**Male Blade Crimp Terminals (tin plated)**

Order No.	AWG	mm <sup>2</sup>	Hand Crimp Tool	Applicator	Payoff Direction (Wind)	Plant No. for Samples
33000-0003	22		63811-2600	N/A	Right ('B')	3109 6201 1201 1399 3102 5102
		0.5	N/A	N/A	Right ('B')	
33000-1003	22		63811-2600	63900-0600	Left ('D')	
		0.5	N/A	63900-0600	Left ('D')	
33000-0002	20/18/16		63811-2600 (20/18 AWG), 63811-2400 (16AWG)	N/A	Right ('B')	
		0.75/1	N/A	N/A	Right ('B')	
33000-1002	20/18/16		63811-2600 (20/18 AWG), 63811-2400 (16AWG)	63900-0500 (20 AWG) 63900-0400 (18AWG) 63900-0300 (16 AWG)	Left ('D')	
		0.75/1	N/A	63900-0500 (0.75mm <sup>2</sup> ) 63900-0300 (1mm <sup>2</sup> )	Left ('D')	
33000-0001	14		63811-2400	N/A	Right ('B')	
		1.5	N/A	N/A	Right ('B')	
33012-1001	14		63811-2400	63900-0200	Left ('D')	
		1.5	N/A	63900-0200	Left ('D')	

[www.molex.com/link/src.html](http://www.molex.com/link/src.html)

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