

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.

- 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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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 ²	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 ²), 63811-6100 (1mm ²)	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 ²), 63811-6100 (1mm ²)	63900-0900 (0.75mm ²), 63900-0800 (1mm ²)	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 ²	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 ²) 63900-0300 (1mm ²)	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

Americas Headquarters
Lisle, Illinois 60532 U.S.A.
1-800-78MOLEX
amerinfo@molex.com

Asia Pacific North Headquarters
Yamato, Kanagawa, Japan
81-46-265-2325
apninfo@molex.com

Asia Pacific South Headquarters
Jurong, Singapore
65-6268-6868
apsinfo@molex.com

European Headquarters
Munich, Germany
49-89-413092-0
eurinfo@molex.com

Corporate Headquarters
2222 Wellington Ct.
Lisle, IL 60532 U.S.A.
P: 630-969-4550 F: 630-969-1352