



New generation 84-circuit Sealed Rectangular Connectors, with single-handed blind mate functionality, use proven MX150™ and MX150L™ terminals to offer a hybrid, high power-and-signal circuit-count system for harsh applications in commercial vehicles

Commercial vehicle applications, especially agricultural machinery, are becoming more intelligent with increased wiring requirements and demands for hybrid technology. The new generation SRC family offers a rugged, sealed, wire-to-panel (bulkhead) and wire-to-wire hybrid connection system designed for high circuit-count applications in harsh environments. The primary location for this system is as the firewall connector, situated between the cab and the engine, but SRC can also replace existing circular connectors in various in-vehicle applications.

The SRC system uses proven MX150™ terminals with current ratings up to 18A and MX150L™ terminals with current ratings up to 40A. Flexible standard or mixed power/signal options are available. The MX150 and MX150L terminal systems provide cost savings by eliminating the need to purchase, handle and crimp individual wire seals. This proven terminal technology provides flexibility to increase circuit count and allows for simple field repair and replacement of headers and connectors.

Optional flange seal and conduit interface are available. Tooling options include fine-adjust crimp press applicators for high-volume production and hand tools for low volume production and field repairs. For additional information visit: www.molex.com/link/src.html

Features and Benefits

Pre-assembled connector housing, seals, rear cover and TPA ship in one-piece	Easier, quicker assembly processes resulting in applied labour and cost savings
Simple crimp, poke and plug application using standard MX150™ and MX150L™ terminals; no need to crimp individual wire seals	Flexible system; easily increase circuit count using existing connectors Quick, low cost field repairs using common screw driver, needle nose pliers and terminal extraction tool
Sliding latch with cam action	Single-handed mating and locking action; no screw action or tools required for mating assembly Latch does not interfere with wire harness
Integral Terminal Position Assurance (TPA) with new anti-scooping feature	Assures that crimped terminal leads are properly locked into connector Prevents terminals from being damaged during mating operation
Integral, two-way matte seal plus interface seal with improved retention features	Passes IP69K testing; suitable for applications in harsh environments Interface seal now securely retained in two directions
Protective rear conduit interface for female connector	Protects and provides strain relief to wireseal interface
Connector system retention greater than 200N	Suitable for harsh applications in highvibration environments
Superior electrical and mechanical performance capabilities	Surpasses performance of most other competitive products in the market
Unused circuits can be blocked using plastic seal plugs	Provides flexibility; sealing unused circuits without adding complexity to part numbers and customer inventory

SRC – Sealed Rectangular Connectors

- 93287** 84-Circuit Header
- 93288** 84-Circuit Connector
- 85083** Power & Signal Header
- 85084** Power & Signal Connector
- 93286** Conduit Interface



SRC (Sealed Rectangular Connectors)



Conduit Interface



MX150™ Terminals
Female (Left) Male (Right)



MX150L™ Terminals
Female (Left) Male (Right)



Applications

- Agricultural machines
- Construction and mining equipment
- Forest and garden equipment
- Commercial vehicles
- Marine equipment
- Generator sets (Gensets)
- Search, detection and navigation equipment
- Trains and rail equipment
- Material handling equipment

Additional Product Features

Modular design with 7 segments (A to G) which can be either power or control segments

One control segment consists of 12 circuits

One power segment consists of 3 circuits

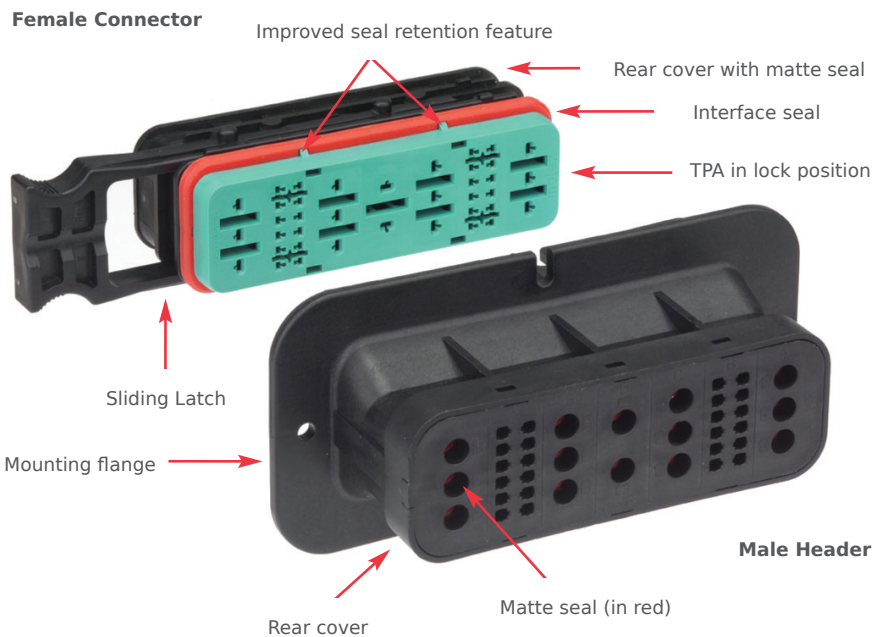
Control circuits use MX150 terminals up to 18A

Power circuits use MX150L terminals up to 40A

Possible circuit options for shell size B:

- 84 + 0 (Control only)
- 72 + 3
- 60 + 6
- 48 + 7
- 36 + 12
- 24 + 14
- 12 + 18
- 0 + 20 (Power only)

SRC – Sealed Rectangular Connectors

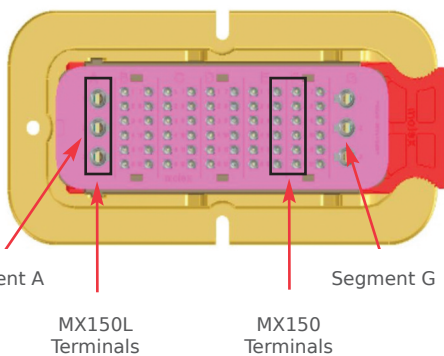


Anti-Scooping Feature
Addition of new plastic stand-offs arranged within the TPA prevents damage to terminals when header and connector are mated



Optional Conduit Interface
Different cable exit options available. See Sales Drawing for full details

60 + 6 Way SRC



Specifications

REFERENCE INFORMATION

Packaging: See PK-85071-001 and PK-85070-001

Mates With:

85084 mates with 85083

93288 mates with 93287

Use With:

MX150 Terminals series 33012/33000

MX150L Terminals series 19434/19431

Designed In: mm

RoHS: Yes

Halogen Free: Yes

Glow Wire Compliant: Yes

ELECTRICAL

Voltage (max.): 500V DC

Current (max.):

-84 way fully loaded 6A* with 30° temp rise (AWG 14 MX150) (*individual terminal 18amps)

-20 way fully loaded 15A* with 30° temp rise (AWG 8, MX150L) (*individual terminal 40amps)

Contact Resistance:

10 milliohm max. (MX150)

30 milliohm max. (MX150L)

Insulation Resistance: 20 milliohm min.

SRC – Sealed Rectangular Connectors

MECHANICAL

Contact Insertion Force: 200N max.

Contact Retention to Housing: 50N min.

Mating/Unmating Force: 200N max.

Results from sample trial:

Average Measured Mating Force: 98N

Measured Mating Force: 111N max.

Measured Mating Force: 84N min.

Durability (min.): Tin: 25 cycles

Gold: 100 cycles

PHYSICAL

Housing: SPS/ Nylon

Contact: See MX150 and MX150L

Operating Temperature: -40 to +125°C

Degree of protection: IP68 / IP69K

Ordering Information

Connectors and Headers

Order No.	No. of Circuits		Gender
	Control MX150™ Terminals	Power MX150L™ Terminals	
93287-0001	84	0	Female
93288-0001			Male
85084-0700	60	6	Female
85083-0300			Male
85084-2414	24	14	Female
85083-2414			Male

Additional power and signal SRC versions 72+3, 48+7, 36+12, 12+18, 0+20 available on request. Please contact Molex

Conduit Interface

Order No.	No. of Circuits	Cable Exit Direction	Gender
93286-0020	Conduit Interface	Right	Female

MX150 Terminals (Control) - Insulation overall diameter 1.50 to 2.69mm

Gender	MX150 Terminals Order No.	AWG	mm ²	Hand Crimp Tool	Applicator
Female	33012-3003	22	-	63811-6000	63900-1000
		-	0.5	63811-6200	63900-1000
	33012-3002	20/18	-	63811-6000	63900-0900 (20 AWG) 63900-0800 (18 AWG)
		-	0.75/1	63811-6200 (0.75mm ²) 63811-6100 (1mm ²)	63900-0900 (0.75mm ²) 63900-0800 (1mm ²)
	33012-3001	16/14	-	63811-5900	63900-0700
		-	1.5	63811-6100	63900-0700
Male	33000-1003	22	-	63811-2600	63900-0600
		-	0.5	-	63900-0600
	33000-1002	20/18/16	-	63811-2600 (20/18 AWG) 63811-2400 (16 AWG)	63900-0500 (20 AWG) 63900-0400 (18 AWG) 63900-0300 (16 AWG)
		-	0.75/1	-	63900-0500 (0.75mm ²) 63900-0300 (1mm ²)
	33000-1001	14	-	63811-2400	63900-0200
		-	1.5	-	63900-0200

Ordering Information

MX150L Terminals (Power) - Insulation overall diameter 3.61 to 5.54mm

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Gender	MX150L Terminals Order No.	AWG	mm ²	Hand Crimp Tool	Applicator
Female	19434-0001	10-12	-	63811-5300	63895-0400
	19434-0002	8	-	63811-5400	63832-5100
Male	19431-0001	10-12	-	63811-5300	63895-0400
	19431-0015	8	-	63811-5400	63832-5100