

# Solar Connectors

RoHS Compliant This product is RoHS compliant.



## SOLAR SPEC PAK®

### Features:

- Configurable to 1000 Volts
- Chemical & UV Resistant Ruggedized Shells
- Tough Safe Housings (UL1977, Section 10.2)
- IP68 Interfacial Sealing Gasket
- Locking Latch
- Power Contacts (up to 4) and / or
- Signal Contacts (up to 16)
- Industry Standard Sealing Components
- First Mate / Last Break Ground Connectors
- Housing Colors to Match Wire Colors for ease of Assembly

For quantities greater than listed, call for quote.

### Connector Kits

MOUSER STOCK NO.	APP Part No.	Fig.	Description	Price Each			
				1	25	50	100
879-PK6-050B04	PK6-050B04	A	Plug Kit	7.40	6.97	6.59	6.25
879-PK2-050B04	PK2-050B04	B	Panel Mount Receptacle Kit	8.08	7.61	7.19	6.82
879-PK1-050B04	PK1-050B04	C	Inline Receptacle Kit	7.47	7.04	6.65	6.31

### Accessories

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	APP Part No.	Fig.	Description	Price Each			
				1	25	50	100
879-PK9P-050	PK9P-050	D	Cover Kit for Plug	4.96	4.75	4.56	4.38
879-PK9-050	PK9-050	E	Cover Kit for Panel Mount Receptacle	4.69	4.49	4.31	4.14
879-PK9R-050	PK9R-050	F	Cover Kit for Inline Receptacle	4.32	4.13	3.96	3.81
879-115149G1	115149G1	-	Unlocking Hand Tool	4.07	3.84	3.63	3.44

## molex SOLAR SPEC™ DC CONNECTORS

one company a world of innovation

SolarSpec™ DC Connectors from Molex with quick, easy 'snap-lock' mating and internal locking mechanism for superior safety provide a rugged, durable, IP-67 sealed connection for series cabling of PV solar panels

### Features and Benefits:

- Reliable, robust industry standard pin and socket DC connectors for series cabling of silicon photovoltaic (PV) panels
- Simple 'snap-lock' mating for quick and easy factory or field assembly
- Polarization and an audible 'click' ensure successful mating of the connectors
- Internal locking mechanism protected by latch guards prevents accidental and unauthorized decoupling of connectors, ensures reliable connection and safe handling
- 'Touch-proof' safety design provides protection from electrical current even when connectors are unmated
- IP67 sealing protection against dust and water
- Resistant to UV and ozone damage
- Dual-qualification by TÜV and UL; guarantees long-life in harsh environments
- Exclusive molded surface ribs allow for secure gripping, especially with work gloves
- Contact resistance <math>< 0.5m\Omega</math>; lowest contact resistance compared with competitor products for greatest efficiency
- Strain relief ensures strong, secure, enduring cable connections
- Meets NEC 2008 and NFPA 70; US-code compliant for "The safe installation of electrical wiring and equipment"
- Accommodates 14, and 12 to 10AWG cable

### Markets and Applications:

- A Junction box is assembled on to each PV panel during the panel manufacturing process
- DC connectors, terminated to cables, are used to link the junction boxes and PV panels in a serial grid array (parallel arrangements are also possible)
- Applications for solar silicon photovoltaic (PV) panels include:
  - Stadiums
  - Home Installations
  - Public buildings
  - Solar farms (power plants)

## CONNECTORS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Wire Gauge mm <sup>2</sup>	Wire Gauge AWG	Price Each			
					1	10	100	500
<b>Female</b>								
538-130244-0203	130244-0203	G	2.50	14	5.49	4.59	3.44	2.88
538-130244-0201	130244-0201	G	4.00-6.00	10-12	5.49	4.59	3.44	2.88
<b>Male</b>								
538-130244-0204	130244-0204	H	2.50	14	5.74	4.81	3.60	3.00
538-130244-0202	130244-0202	H	4.00-6.00	10-12	5.74	4.81	3.60	3.00

## CONNECTOR KITS

Kits contain housing assembly with contact

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Wire Gauge mm <sup>2</sup>	Wire Gauge AWG	Price Each			
					1	10	100	500
<b>Female</b>								
538-130244-1203	130244-1201	I	2.50	14	25.11	23.74	20.76	19.82
538-130244-1201	130244-1203	I	4.00-6.00	10-12	25.11	23.74	20.66	19.82
<b>Male</b>								
538-130244-1204	130244-1202	J	2.50	14	25.93	24.41	21.32	20.52
538-130244-1202	130244-1204	J	4.00-6.00	10-12	25.34	24.41	21.32	20.52

## CONTACTS

### Loose Piece

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Wire Gauge mm <sup>2</sup>	Wire Gauge AWG	Price Each			
					1	10	100	500
<b>Sockets</b>								
538-130197-0336	130197-0336	-	2.50	14	.55	.47	.42	.38
538-130197-0325	130197-0325	-	4.00-6.00	10-12	.55	.47	.42	.38
<b>Pins</b>								
538-130196-0313	130196-0313	-	2.50	14	.54	.46	.41	.37
538-130196-0310	130196-0310	-	4.00-6.00	10-12	.54	.46	.41	.37

### Reels

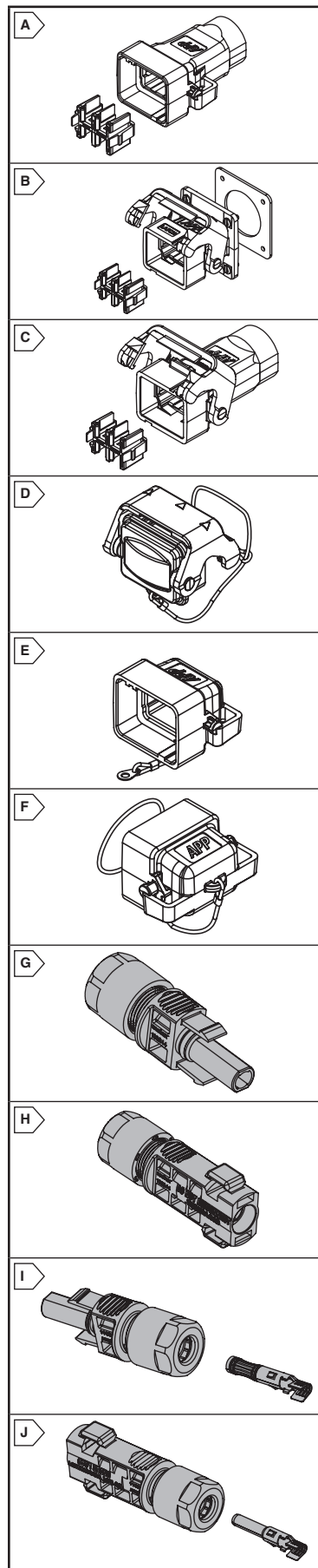
For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Wire Gauge mm <sup>2</sup>	Wire Gauge AWG	Reel Quantity	Price Each
538-130197-0347	130197-0347	-	2.50	14	2000	.283
538-130197-0346	130197-0346	-	4.00-6.00	10-12	2000	.283
<b>Pins</b>						
538-130196-0315	130196-0315	-	2.50	14	2000	.283
538-130196-0314	130196-0314	-	4.00-6.00	10-12	2000	.283

## TOOLS

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Molex Part No.	Fig.	Description	Price Each
538-130203-1250	130203-1250	-	Service Tool, PV Solar	1.38
538-63823-6400	63823-6400	-	Hand Crimp Tool	301.63



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Photovoltaic (Solar)

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