

Datasheet for 76650-0245

General Information

Kit Part Number:	76650-0245
Connector Type:	Wire-to-Wire
Solution:	Solar
Molex Family:	SolarSpec™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications

Circuit Size:	1
Current Rating:	15A, 30A
Mounting Style:	Free-Hanging
Orientation:	Plugs, Receptacles
Tool Included:	Yes
Voltage Rating:	600V
Wire Gauge (AWG):	12-10, 14

Product Highlights

• The in-house design and manufacture of SolarSpec™ pin and socket DC connectors and contacts enables Molex to deliver a superior quality, reliable and lower-cost solution to the market. Customers benefit from exclusive Molex design features including molded surface ribs and the lowest contact resistance over competitive connector versions. Connectors can be sold individually, as standard or custom cable assemblies, or supplied together with the Molex SolarSpec™ Junction Box for Silicon PV panels.

• Features and Benefits • DC connectors feature simple snap-lock mating, polarization and an audible click to ensure successful mating. Quick and easy factory or field assembly DC connectors feature internal-locking mechanism protected by latch guards; requires a tool to unlock Prevents accidental and unauthorised decoupling of connectors; ensures safe handling Touch-proof safety design of DC connectors Protection from electrical current even when connectors are unmated Connectors feature exclusive molded-surface ribs Allows for secure gripping, especially with work gloves DC connectors and cable assemblies are sealed to IP67 and resistant to UV and ozone damage Rugged, durable connectors and cables for use in solar applications DC connectors accommodate 2.50mm² and 4.00 to 6.00mm² (14 and 12 to 10 AWG) cable Multiple options to meet customer requirements • Applications • Home Installations Junction boxes Public Buildings Solar Farms (power plants) Solar Photovoltaic (PV) panels Stadiums • • •

Bill of Materials

Molex Part No.	Description	Quantity
130196-0314	SolarSpec Male Terminal 12-10 AWG Silver over Nickel	5
130196-0315	SolarSpec Male Terminal 14 AWG Silver over Nickel	5
130197-0346	SolarSpec Female Terminal 12-10 AWG Silver over Nickel	5
130197-0347	SolarSpec Female Terminal 14 AWG Silver over Nickel	5
130203-1250	PV Solar DC Connector Unlock Tool	2
130244-0201	SolarSpec™ DC Receptacle, 12-10 AWG, 30A, 600V, Cable Opening 8.40mm (0.33")	5
130244-0202	SolarSpec™ DC Plug, 12-10 AWG, 30A, 600V, Cable Opening 8.40mm (0.33")	5
130244-0203	SolarSpec™ DC Receptacle, 14 AWG, 15A, 600V, Cable Opening 7.00mm (0.28")	5
130244-0204	SolarSpec™ DC Plug, 14 AWG, 15A, 600V, Cable Opening 7.00mm (0.28")	5

Recommended Molex Tool

Molex Part No.	Description
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