

# Off-the-Shelf (OTS) Squba Discrete Wire Cable Assemblies

**molex**

**OTS Squba Discrete Wire Cable Assemblies offer a 1.80mm pitch and an IP67 NEMA rating, and they are available in a variety of cable lengths to facilitate both prototyping and global production**

## Features and Advantages

### Sealed components with proven performance

Provides IP67 NEMA rating. Prevents ingress of dust and water to ensure reliable connection

### UL 1061 discrete wires for cable assemblies

Ready to use in electronic appliance applications. Provide ease of design, prototyping and production

### Meets 2011/65/EU RoHS Compliance

Decreases engineering time and resources

### OTS Squba Discrete Wire Cable Assemblies deliver 6.0A per circuit with a 1.80mm pitch

Delivers reliable power for a wide range of space-constrained applications



### Assembled in ISO/TS16949-certified facilities

Ensures high quality. Meets current automotive industry standards

### Pin-to-pin mapping from receptacle to PCB header

Provides ready-to-use, plug-and-play connections

### Custom assemblies for production also available

Meets design needs after prototyping is complete. Molex's extensive design and manufacturing expertise can meet the unique challenges of the most demanding applications

## Squba Cable Assembly Family

## Applications

### Consumer

- HVAC
- Landscaping equipment
- Liquid dispensing equipment
- Outdoor lighting
- Security systems

### Commercial Vehicle

- ATVs
- Buses
- Forklifts
- Marine: Under-dash wiring, lighting
- Recreational vehicles
- Trucks

### Industrial Automation

- Food processing equipment
- Industrial controls
- Industrial machines and motors
- Robotics



ATV



Security Systems



HVAC



Outdoor Lighting



Industrial Automation



Bus

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## Specifications

### REFERENCE INFORMATION

Receptacle Packaging: Tray  
Plug Packaging: Bulk  
Crimp Terminal Packaging: Reels  
UL File No.: TBD  
CSA File No.: TBD  
Use With: 22 to 24 AWG  
Insulation Diameter: 0.95 to 1.40mm  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free: No  
Glow Wire Compliant: TBD  
IP Rating: IP67

### ELECTRICAL

Voltage (max.): 125V  
Current (max.): 6.0A  
Contact Resistance: 10 milliohms  
Dielectric Withstanding Voltage: Leakage < 5mA  
Insulation Resistance (min.): 100 Megohms

### MECHANICAL

Terminal Insertion Force (max.): 5N  
Terminal Retention to Housing (min.): 30N  
Mating Force (max.): 45N  
Un-mating Force (max.): 35N  
Durability (max.): 10 Cycles

### PHYSICAL

Housing: Plastic  
Contact: Copper Alloy  
Plating:  
Overall — Tin  
Under-plating — Nickel  
Operating Temperature: -40 to +105°C

## Ordering Information

Series No.	Component	Circuit Count	Lengths
<a href="#">45145</a>	Receptacles	2, 4, 6, 8, 10	150.00mm, 300.00mm, 1.0m
<a href="#">45146</a>	Plugs	2, 4, 6, 8, 10	

Custom Product	Description
<a href="#">Contact Molex</a>	Squba Discrete Wire Cable Assemblies Custom Lengths and Other Options

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

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