

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

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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
45145	Receptacles	2, 4, 6, 8, 10	150.00mm, 300.00mm, 1.0m
45146	Plugs	2, 4, 6, 8, 10	

Custom Product	Description
Contact Molex	Squba Discrete Wire Cable Assemblies Custom Lengths and Other Options

www.molex.com/link/otscableassemblies.html

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