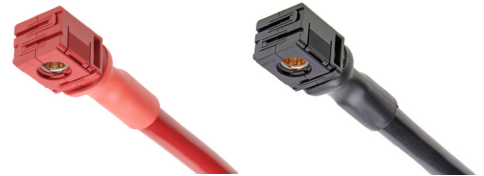


# Off-the-Shelf (OTS) SW1 Cable Assemblies >

OTS SW1 Cable Assemblies deliver solutions with a broad offering of Molex connectors and incorporate COEUR socket technology which enables a high-current-carrying capacity in three sizes: 6.00mm (120.0A), 8.00mm (185.0A) and 11.00mm (300.0A) with a unique positive-locking design for secure mating.



## FEATURES AND ADVANTAGES

**Helps ensure minimal contact resistance at the interface between the wire and the crimp barrel; contributes to the system's minimal heat generation in higher-current-carrying capacity compared to other designs**  
Reliable crimp geometry with high-quality 8-sided crimp profile

**Helps secure mating to prevent cable assemblies from backing off pins due to shock, vibration or mishandling; stainless steel spring clips retract when pressed and engage once the pressure is released to lock into groove on pin**  
Positive-locking stainless steel spring clips

Housing	PBT
Voltages	1,000V
Currents	120.0A (6.00mm), 185.0A (8.00mm), and 300.0A (11.00mm)
Operating Temperatures	-40 to +125°C
Mating Force	50N (6.00mm), 60N (8.00mm) and 70N (11.00mm)

**Helps to differentiate circuits and to prevent mis-mating when multiple cable assemblies are used on the same application**  
Color-coded receptacle housings

**Decreases engineering time and resources**  
Meets 2011/65/EU RoHS Compliance

**Provides ease of design, prototyping and production and ready to use in electronic appliance applications**  
UL 10002 Discrete wires

## MARKETS AND APPLICATIONS

### Energy Storage

Battery storage systems  
Power conditioning equipment

### Industrial Automation

Factory equipment  
Robotics



Battery Storage Systems



Factory Equipment

# Off-the-Shelf (OTS) SW1 Cable Assemblies ➤

## SPECIFICATIONS

### Reference Information

Packaging:  
Cable Assemblies: Bag  
Locking Pin: Bag, Vacuum-sealed  
UL File No.: E29179  
CSA File No.: 70184994  
Use With: Printed circuit boards and busbars  
Designed In: Millimeters  
RoHS: Yes  
Low Halogen: Yes

### Electrical (6.00 mm Size)

Voltage (max.): 1,000V  
Current (max.): 120.0A  
Contact Resistance (max.): 0.25 milliohms

### Mechanical (6.00mm Size)

Mating Force (max.): 50N  
Unmating Force (min.): 5N  
Durability (min.): 200 mating cycles

### Physical

Receptacle Housing: PBT  
Contact: High-performance Copper (Cu) Alloy  
Plating:  
Socket Contact Area—Gold (Au)  
Pin - Silver (Ag)  
PCB Thickness (min.): 1.58mm  
Busbar Thickness (min.): 1.50mm  
Flammability: UL 94V-0  
Operating Temperature: -40 to +125°C

### Electrical (8.00 mm Size)

Voltage (max.): 1,000V  
Current (max.): 200.0A  
Contact Resistance (max.): 0.25 milliohms

### Mechanical (8.00mm Size)

Mating Force (max.): 60N  
Unmating Force (min.): 6N  
Durability (min.): 200 mating cycles

### Electrical (11.00 mm Size)

Voltage (max.): 1,000V  
Current (max.): 300.0A  
Contact Resistance (max.): 0.25 milliohms

### Mechanical (11.00mm Size)

Mating Force (max.): 70N  
Unmating Force (min.): 7N  
Durability (min.): 200 mating cycles

## ORDERING INFORMATION

Series No.	Components	Color	Size (mm.)	Length (m.)
<a href="#">224355</a>	SW1 6.00mm R-L 2 AWG	Black, Red	6.00	1.0
<a href="#">224356</a>	SW1 6.00mm R-R 2 AWG		6.00	
<a href="#">224357</a>	SW1 6.00mm R-S 2 AWG		6.00	
<a href="#">224411</a>	SW1 8.00mm R-L 1/0 AWG		8.00	
<a href="#">224412</a>	SW1 8.00mm R-R 1/0 AWG		8.00	
<a href="#">224413</a>	SW1 8.00mm R-S 1/0 AWG		8.00	
<a href="#">224414</a>	SW1 11.00mm R-L 4/0 AWG		11.00	
<a href="#">224415</a>	SW1 11.00mm R-R 4/0 AWG		11.00	
<a href="#">224416</a>	SW1 11.00mm R-S 4/0 AWG		11.00	

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