

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

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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.)
224355	SW1 6.00mm R-L 2 AWG	Black, Red	6.00	1.0
224356	SW1 6.00mm R-R 2 AWG		6.00	
224357	SW1 6.00mm R-S 2 AWG		6.00	
224411	SW1 8.00mm R-L 1/0 AWG		8.00	
224412	SW1 8.00mm R-R 1/0 AWG		8.00	
224413	SW1 8.00mm R-S 1/0 AWG		8.00	
224414	SW1 11.00mm R-L 4/0 AWG		11.00	
224415	SW1 11.00mm R-R 4/0 AWG		11.00	
224416	SW1 11.00mm R-S 4/0 AWG		11.00	