

Quick Reference Guide AW Series Switches

The AW Series toggle switch features many circuit configurations, including SPST, SPDT, DPST, DPDT and 4PDT, with a choice of momentary or maintained circuits. The switch provides superior switching power through brass silver alloy contacts. This toggle is UL, CSA recognized for 20A at 30VDC and 20A at 250VAC. Electrical life is 20,000 cycles at full load. Other electrical parameters include contact resistance of 10 milliohms max., insulation resistance of 1,000 megohms and actuation force of 29.4 N max.

The AW Series switches have .250 quick connect terminals and all are panel mountable with 12 mm threaded bushing which is brass with chrome plating. The series mounting design conforms to standard panel cut outs, easing the task of installation.

Features

- IP67 panel mounting seal
- · Sleeve and Frame perfect sealed
- Fixed contact molded-inserting construction
- · Wide range switch functions available
- Meets requirements of industrial and outdoor environments

Applications

These devices are ideal for any design requiring human interface via toggle-style switch in harsh environments, including:

- · Industrial equipment
- Heavy machinery
- · Construction equipment
- Transportation vehicles
- Outdoor concert and lighting equipment
- Portable power tools



TE Connectivity AW Series Switches

Typical Performance Characteristics

Number of Poles: 1, 2 and 4 pole

Switch Functions: ON-OFF, ON-ON, ON-(ON), ON-OFF-ON,

ON-OFF-(ON), (ON)-OFF-(ON)

Contact Rating: 20 A @250 VAC, 20 A @125 VAC, 20 A @30 VDC

Electrical Life: 20,000 cycles **Mechanical Life**: 40,000 cycles

Contact Resistance: Max. 10 mOhm at 2-4 VDC 1 A

Insulation Resistance: Min. 1,000 MOhm **Dielectric Strength**: 1,500 VAC for 1 min.

Actuation Force: Max. 29.4 N Panel Cut-out: D-cut, 12.5 mm Standards and Specs: UL, CSA

Environmental Specification

Operating Temperature : -20 to +70°C Storage Temperature : -20 to +70°C Vibration Resistance : 1.5 mm 10-55 Hz Shock Resistance : 50 g for 11±1 msec

Terminal Strength: 24.5 N

Material Specifications

Contacts: Brass silver alloy finish **Toggle**: Brass chromium plated

Terminals: Brass plate **Case**: Phenol resin **Cover**: Steel zinc plated

Seal: Rubber "o" ring panel seal, insert molded internal toggle

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Other Characteristics

Contact Timing: Break before Make

Right Angle Versions: No

Standard Number of Positions: 2 or 3 **Terminals / Mounting Style**: Quick connect

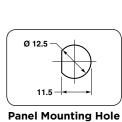
Actuator Style: Standard toggle

Dimensions Case (LxWxH): 33 x 19.5 ... 36.5 x 24.5 mm

Packaging: Bulk

Choice of momentary or maintained circuits

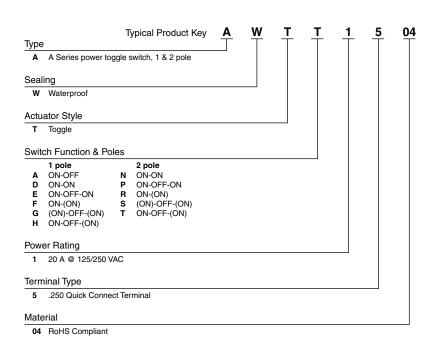




1 Pole

2 Pole

Product Key



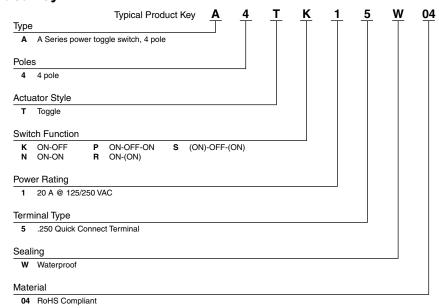


TE Connectivity

AW Series Switches

PART NUMBERS								
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number		
AWTA1504	Waterproof	1 pole	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-3		
AWTD1504	Waterproof	1 pole	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-0		
AWTE1504	Waterproof	1 pole	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-1		
AWTF1504	Waterproof	1 pole	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-4		
AWTG1504	Waterproof	1 pole	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-5		
AWTH1504	Waterproof	1 pole	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-6		
AWTN1504	Waterproof	2 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	7-6437630-2		
AWTP1504	Waterproof	2 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	3-6437592-9		
AWTR1504	Waterproof	2 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	5-6437630-0		
AWTS1504	Waterproof	2 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-1		
AWTT1504	Waterproof	2 poles	ON-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	1-6437630-0		

Product Key





4 Pole

PART NUMBERS								
Product Key	Sealing	Poles	Switch Function	Terminal	Rating	Part Number		
A4TK15W04	Waterproof	4 poles	ON-OFF	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-0		
A4TN15W04	Waterproof	4 poles	ON-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-1		
A4TP15W04	Waterproof	4 poles	ON-OFF-ON	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-2		
A4TR15W04	Waterproof	4 poles	ON-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-3		
A4TS15W04	Waterproof	4 poles	(ON)-OFF-(ON)	0.250 Quick Connect Terminal	20 A at 125/250 VAC	8-6437630-4		



How to Specify in a Switch

Electrical Considerations

Voltage of Applications:	Current of Application:				
Circuitry Configuration: Number of Poles:	Num	ber of Throws:			
Number of Operations anticipated:					
Agency Approvals or Listings Desired:					
Mechanical Considerations					
Type of Switch (Actuator Type): Toggle	Pushbutton	Rotary R	ockerOther		
Switch Function (On/Off/On):	On/Off:	Momentary:			
Termination:Thru-Hole (PC) Su	ırface Mount Wire L	ug Quick Co	onnect Other		
Sealing Contamination Requirements:					
Product Processing Considerations					
Anticipated Soldering Process: Hand _	Wave SMT	Other			

FOR MORE INFORMATION

TE Technical Support Center

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Part numbers in this brochure are RoHS Compliant*, unless marked otherwise.

*as defined www.te.com/leadfree

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