

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities
 Army - AV
 Navy - EC
 Air Force - 99
 DLA - ES

User activity: Air Force - 11

P A Air Force - 85 Other Cust Army - ER Navy - AS		International Interest	TITLE SWITCH, TOGGLE, FOUR POLE, ENVIRONMENTALLY SEALED, LEVER-LOCK	MILITARY STANDARD MS24660
Procurement Specification MIL-S-3950		SUPERSEDES		PAGE 1 OF 4

CONTOUR OF SWITCH OPTIONAL PROVIDED MAX DIMENSIONS SPECIFIED ARE NOT EXCEEDED

1.370 MAX

1.340 MAX

1.660 MAX

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DD FORM 672
 1 MAY 73
 AMSC-N/A

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

DISTRIBUTION STATEMENT A

Approved for public release, distribution is unlimited.

5930-1358-06

FED. SUP CLASS
 5930

APPROVED 10 Mar 1960 REVISED C 20 Apr 11 1967 D 16 Sep 1969 E 14 May 1974 F 28 Sep 87

FED SUP CLASS
5930

Inches	mm	Inches	mm
.005	0.13	.38	9.7
.008	0.20	.42	10.7
.012	0.30	.432	10.97
.020	0.38	.47	11.9
.060	0.51	1.05	26.67
.076	1.93	1.10	27.94
.130	2.29	1.140	28.96
.25	6.4	1.340	34.04
.37	9.4	1.370	34.80
		1.660	42.16

NOTES

1. Dimensions are inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.020 (0.51 mm) for two place decimals and ± 0.005 (0.13 mm) for three place decimals.
- ④ 4. For hardware and terminal screw detail specifications, see appendix of MIL-S-3950.
5. All switches on this standard are designed so that the movement of the switch mechanism is opposite to that of the toggle lever.
6. Maximum weight is 0.20 pound.
7. Locking arrangement Positive locking shall be accomplished and shall prevent motion of the toggle lever until the locking mechanism is manually released.
8. The force required to release the locking mechanism shall be 3 to 5 pounds.
9. The locking means at the top of the toggle bushing shall be capable of withstanding a torque of 20 inch-pounds applied in both directions immediately following the humidity test.
10. Part number example. MS24660-21A (locking combination 'A').
- ⑤ 11. In the event of a conflict between the text of this standard and the reference cited herein, the text of this standard shall take precedence.
- ⑥ 12. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.

P A
Air Force - 85
Other Cust
Army - EP
Navy - AS

Interchangeable:
Interest

TITLE

SWITCH, TOGGLE, FOUR POLE,
ENVIRONMENTALLY SEALED,
LEVER-LOCK

MILITARY STANDARD

MS24660

Procurement Specification
MIL-S-3950

SUPERSEDES

PAGE 2 OF 4

DD FORM 672
1 MAY 73

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

User activity: Air Force - 11

Army - AV
Navy - EC
Air Force - 99
DLA - ES

Review activities

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

For changes see pages 1 and 2

REVISED ④

10 Mar 1960

APPROVED

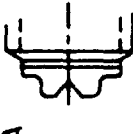
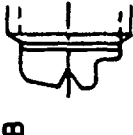
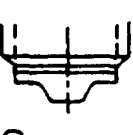
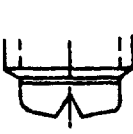
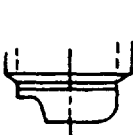
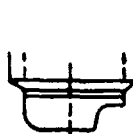
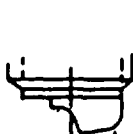

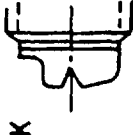
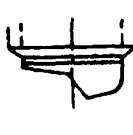
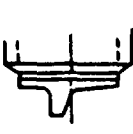
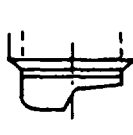

User activity: Air Force - 11

Review activities: Army - AV
Navy - EC
Air Force - 99
DLA - ES

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FED SUP CLASS
5930

Locking combinations

A		LOCKED IN THREE POSITIONS
B		LOCKED IN CENTER AND DOWN POSITIONS (KEYING SIDE)
D		LOCKED OUT OF CENTER POSITION
E		LOCKED IN CENTER POSITION
F		LOCKED IN UP POSITION (OPPOSITE KEYING)
G		LOCKED IN DOWN POSITION (KEYING SIDE)
H		LOCKED OUT OF CENTER AND DOWN POSITION (KEYING SIDE)
J		LOCKED OUT OF CENTER AND UP POSITION (OPPOSITE KEYING)
K		LOCKED IN CENTER AND UP POSITION (OPPOSITE KEYING)
L		LOCKED OUT OF DOWN POSITION (KEYING SIDE)
M		LOCKED OUT OF AND INTO UP POSITION (OPPOSITE KEYING)
N		LOCKED OUT OF UP POSITION (OPPOSITE KEYING)
P		LOCKED OUT OF AND INTO DOWN POSITION (KEYING SIDE)
FIGURES A THROUGH P DO NOT REPRESENT DETAILS OF CON- STRUCTION. THEY SCHEMATICALLY ILLUSTRATE LOCKING CONFIGURATIONS AND MOMENTARY POSITIONS		

P A
Air Force - 85
Other Cust
Army - ER
Navy - AS

Interim Model
INTERIM

TITLE

SWITCH, TOGGLE, FOUR POLE,
ENVIRONMENTALLY SEALED,
LEVER-LOCK

MILITARY STANDARD

MS24660

Procurement Specification
MIL-S-3950

SUPERSEDES

PAGE 3 OF 4

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DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Review activities
Army - AV
Navy - EC
Air Force - 99
DLA - ES

User activity Air Force - 11

FED. SUP CLASS
5930

Detail requirements.

MS part number	Available locking combinations	Circuit with toggle lever in		Current capacity (amperes) 28 volts dc		Current capacity (amperes) 115 volts, 60 and 400 hertz ac	
		Keying side	Center	Opposite keying side	Lamp-load circuit	Resistive circuit	Inductive circuit
MS24660-21	All	1-2 7-8 4-5 On 10-11	Off	2-3 8-9 5-6 On 11-12			
MS24660-22	D, F, G	Off	None	2-3 8-9 5-6 On 11-12	5	20	15
MS24660-23	D, F, G	1-2 7-8 4-5 On 10-11	None	2-3 8-9 5-6 On 11-12			
MS24660-24	E, F, K, M	None	Off	2-3 8-9 5-6 On 11-12			
MS24660-25	F	None	Mom. off	2-3 8-9 5-6 On 11-12			
MS24660-26	F	1-2 Mom. 7-8 4-5 on 10-11	None	2-3 8-9 5-6 On 11-12			
MS24660-27	E, L, N	1-2 Mom. 7-8 4-5 on 10-11	Off	2-3 Mom. 8-9 5-6 on 11-12			
MS24660-28	E	1-2 Mom. 7-8 4-5 on 10-11	Off	None	4	18	8
MS24660-29	F	Mom. off	None	2-3 8-9 5-6 On 11-12			
MS24660-30	F	1-2 Mom. 7-8 4-5 on 10-11	None	Off			
MS24660-31	E, F, K, L, M, N	1-2 Mom. 7-8 4-5 on 10-11	Off	2-3 8-9 5-6 On 11-12			
MS24660-32	E	None	1-2 7-8 12-3 Mom. 8-9 4-5 On 10-11 5-6 on 11-12				
MS24660-33	E, F, K, M	None	1-2 7-8 12-3 4-5 On 10-11 5-6 On 11-12		5	20	15

APPROVED 10 Mar 1960 REVISED (F) For changes see pages 1 and 2

P A
Air Force - 85
Other Cust
Army - ER
Navy - AS

International
Interest

TITLE

SWITCH, TOGGLE, FOUR POLE,
ENVIRONMENTALLY SEALED,
LEVER-LOCK

MILITARY STANDARD

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SUPERSEDES

PAGE 4 OF 4