

INCH-POUND

MIL-DTL-38999M  
SUPPLEMENT 1  
11 February 2015

## DETAIL SPECIFICATION

CONNECTORS, ELECTRICAL, CIRCULAR, MINIATURE, HIGH DENSITY, QUICK DISCONNECT (BAYONET, THREADED, OR BREECH COUPLING), ENVIRONMENT RESISTANT WITH CRIMP REMOVABLE CONTACTS OR HERMETICALLY SEALED WITH FIXED, SOLDERABLE CONTACTS, GENERAL SPECIFICATION FOR

This supplement forms a part of MIL-DTL-38999M, dated 11 February 2015.

## SERIES I, SCOOP-PROOF, BAYONET COUPLING CONNECTORS

MIL-DTL-38999/9	-	Connectors, Electrical, Circular, Receptacle, Dummy Stowage, Bayonet Coupling, (MIL-C-27599 Series I, and MIL-DTL-38999 Series I).
MS27466	-	Connectors, Receptacle, Electrical, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series I.
MS27467	-	Connectors, Plug, Electrical, Straight, Crimp Type, Bayonet Coupling, Series I.
MS27468	-	Connectors, Receptacle, Electrical, Jam Nut Mounting, Crimp Type, Bayonet Coupling, Series I.
MS27469	-	Connectors, Receptacle, Electrical, Wall Mounting Flange, Solder Type, Hermetic Seal, Series I.
MS27470	-	Connectors, Receptacle, Electrical, Jam Nut Mounting, Solder Type, Hermetic Seal, Series I.
MS27471	-	Connectors, Receptacle, Electrical, Solder Mounting, Solder Type, Hermetic Seal, Series I.
MS27496	-	Connectors, Receptacle, Electrical, Box Mounting, Crimp Type, Bayonet Coupling, Series I.
MS27505	-	Connectors, Receptacle, Electrical, Back Panel, Box Mounting Flange, Crimp Type, Bayonet Coupling, Series I.
MS27515	-	Connectors, Receptacle, Electrical, Crimp Type, Back Panel, Wall Mounting Flange, Series I, (Inactive / use MS27656).
MS27652	-	Connectors, Receptacle, Electrical, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series I (Inactive / use MS27466).
MS27653	-	Connectors, Plug, Electrical, Straight, Crimp Type, Bayonet Coupling, Series I, (Inactive / use MS27467).
MS27654	-	Connectors, Receptacle, Electrical, Back Panel, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series I, (Inactive / use MS27656).
MS27656	-	Connectors, Receptacle, Electrical, Back Panel, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series I.
MS27661	-	Connectors, Plug, Electrical, Crimp Type, Lanyard Release, Fail-Safe, Series I.
MS27662	-	Connectors, Receptacle, Electrical, Thru-Bulkhead Mounting, Bayonet Coupling, Series I.

AMSC N/A

FSC 5935



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SERIES II, NON-SCOOP-PROOF, BAYONET COUPLING, LOW SILHOUETTE CONNECTORS

MIL-DTL-38999/10	-	Connectors, Electrical, Circular, Receptacle, Dummy Stowage, Bayonet Coupling Flange, (MIL-C-27599 Series II, and MIL-DTL-38999 Series II)
MS27472	-	Connectors, Receptacle, Electrical Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series II.
MS27473	-	Connectors, Plug, Electrical Straight, Crimp Type, Bayonet Coupling, Series II.
MS27474	-	Connectors, Receptacle, Electrical, Jam Nut Mounting, Crimp Type, Bayonet Coupling, Series II.
MS27475	-	Connectors, Receptacle, Electrical, Wall Mounting Flange, Solder Type, Hermetic Seal, Series II.
MS27476	-	Connectors, Receptacle, Electrical, Box Mounting, Solder Type, Hermetic Seal, Series II.
MS27477	-	Connectors, Receptacle, Electrical Jam Nut Mounting, Solder Type, Hermetic Seal, Series II.
MS27478	-	Connectors, Receptacle, Electrical Solder Mounting, Solder Type, Hermetic Seal, Series II.
MS27479	-	Connectors, Receptacle, Electrical, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series II.
MS27480	-	Connectors, Plug, Electrical, Straight, Crimp Type, Bayonet Coupling, Series II.
MS27484	-	Connectors, Plug, Electrical, Straight, Crimp Type, Bayonet Coupling, EMI, Series II.
MS27497	-	Connectors, Receptacle, Electrical, Back Panel, Wall Mounting Flange, Crimp Type, Bayonet Coupling, Series II.
MS27499	-	Connectors, Receptacle, Electrical, Box Mounting Flange, Crimp Type, Bayonet Coupling, Series II.
MS27500	-	Connectors, Plug, Electrical, 90 Degree Elbow, Crimp Type, Bayonet Coupling, Series II.
MS27508	-	Connectors, Receptacle, Electrical, Back Panel, Box Mounting Flange, Crimp Type, Bayonet Coupling, Series II.
MS27513	-	Connectors, Receptacle, Electrical, Box Mounting Flange, Extended Grommet, Crimp Type, Bayonet Coupling, Series II.

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SERIES III, SCOOP-PROOF, SELF-LOCKING, ENVIRONMENT RESISTANT, TRIPLE START THREADED COUPLING CONNECTORS

- MIL-DTL-38999/20 - Connectors, Electrical, Circular, Receptacle, Threaded, Wall Mounting Flange, Removable Crimp Contacts, Series III, Metric.
- MIL-DTL-38999/21 - Connectors, Electrical, Circular, Threaded, Receptacle, Box Mounting Flange, Hermetic Solder Contacts, Series III, Metric.
- MIL-DTL-38999/22 - Connectors, Electrical, Circular, Receptacle, Threaded, Dummy Stowage, Series III, Metric.
- MIL-DTL-38999/23 - Connectors, Electrical, Circular, Threaded, Receptacle, Jam Nut Mounting, Hermetic, Hermetic Solder Contacts, Metric.
- MIL-DTL-38999/24 - Connectors, Electrical, Circular, Receptacle, Threaded, Jam Nut Mounting, Removable Crimp, Contacts, Series III, Metric.
- MIL-DTL-38999/25 - Connectors, Electrical, Circular, Threaded, Receptacle, Solder Mounting, Hermetic, Hermetic Solder Contacts, Series III, Metric.
- MIL-DTL-38999/26 - Connectors, Electrical, Circular, Plug, Straight, Removable Crimp Contacts, Metric.
- MIL-DTL-38999/27 - Connectors, Electrical, Circular, Threaded, Receptacle, Weld Mounting, Hermetic, Hermetic Solder Contacts, Series III, Metric.
- MIL-DTL-38999/29 - Connectors, Electrical, Circular, Threaded, Plug, Lanyard Release, Fail-Safe, Removable Crimp Contacts, Pins, Series III, Metric.
- MIL-DTL-38999/30 - Connectors, Electrical, Circular, Threaded, Plug, Lanyard Release, Fail-Safe, Removable Crimp Contacts, Sockets, Series III, Metric.
- MIL-DTL-38999/31 - Connectors, Electrical, Circular, Threaded, Plug, Lanyard Release, Fail-Safe, Removable Crimp Contacts, Pins, Shell Size 25, Series III, Metric.
- MIL-DTL-38999/34 - Connectors, Receptacle, Electrical, Circular, Breakaway, Jam Nut Mounting, Removable Crimp Contacts, Sockets, Series III, Shell Size 25, Metric.
- MIL-DTL-38999/35 - Connectors, Receptacle, Electrical, Circular, Breakaway Wall Mounting Flange, Removable Crimp Contacts, Sockets, Series III, Shell Size 25, Metric.
- MIL-DTL-38999/36 - Connectors, Electrical, Circular, Threaded, Plug, Lanyard Release, Fail-Safe, Removable Crimp Contacts, Pins, Shell Size 25, Series III, Metric.
- MIL-DTL-38999/60 - Connectors, Electrical, Plug, Circular, Threaded, Straight, Removable Crimp Contacts, Fiber Optic Termini, Tight Tolerance, Series III, Shell Size 25, Metric.
- MIL-DTL-38999/61 - Connectors, Electrical, Circular, Receptacle, Threaded, Wall Mounting Flange, Removable Crimp Contacts, Fiber Optic Termini, Tight Tolerance, Series III, Shell Size 25, Metric.

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SERIES IV, SCOOP-PROOF, ENVIRONMENT RESISTANT, BREECH COUPLING CONNECTORS

MIL-DTL-38999/40	-	Connectors, Electrical, Circular, Receptacle, Wall Mounting Flange, Removable Crimp Contacts, Series IV, Metric.
MIL-DTL-38999/41	-	Connectors, Electrical, Circular, Receptacle, Box Mounting Flange, Hermetic, Breech Coupling, Hermetic Solder Contacts, Series IV, Metric.
MIL-DTL-38999/42	-	Connectors, Electrical, Circular, Receptacle, Box, Mounting Flange, Breech Coupling, Removable Crimp Contacts, Series IV, Metric.
MIL-DTL-38999/43	-	Connectors, Electrical, Circular, Receptacle, Jam Nut Mounting, Hermetic, Breech Coupling, Hermetic Solder Contacts, Series IV, Metric.
MIL-DTL-38999/44	-	Connectors, Electrical, Circular, Receptacle, Jam Nut Mounting, Breech Coupling Removable Crimp Contacts, Series IV, Metric.
MIL-DTL-38999/45	-	Connectors, Electrical, Circular, Receptacle, Solder Mounting, Hermetic, Breech Coupling, Hermetic Solder Contacts, Series IV, Metric.
MIL-DTL-38999/46	-	Connectors, Electrical, Circular, Plug, Breech Coupling, EMI Grounding, Removable Crimp Contacts, Series IV, Metric.
MIL-DTL-38999/47	-	Connectors, Electrical, Circular, Plug, Breech Coupling, Removable Crimp, Contacts, Series IV, Metric.
MIL-DTL-38999/48	-	Connectors, Electrical, Circular, Receptacle, Weld Mounting, Hermetic, Breech Coupling, Hermetic Solder Contacts, Series IV, Metric.
MIL-DTL-38999/49	-	Connectors, Electrical, Circular, Receptacle, In Line Cable, Breech Coupling, Removable Crimp Contacts, Series IV, Metric.
MIL-DTL-38999/50	-	Connectors, Electrical, Circular, Receptacle, Dummy Stowage, Breech Coupling, Series IV, Metric.

CONNECTOR ACCESSORIES

Series I and II:

MS27342	-	Connectors, Adapter, Electrical, Series I and II.
MS27501	-	Connectors, Electrical, Circular, Cover, Protective, Plug, Bayonet Coupling, Series I.
MS27502	-	Connectors, Electrical, Circular, Cover, Protective, Receptacle, Bayonet Coupling, Series I.
MS27510	-	Connectors, Electrical, Circular, Cover, Protective, Plug, Bayonet Coupling, Series II.
MS27511	-	Connectors, Electrical, Circular, Cover, Protective, Receptacle, Bayonet Coupling, Series II.
MS27512	-	Connectors, Electrical, Circular, Nut, Hexagon, Connector Mounting, Series II.
SAE-AS85049/32	-	Connector Accessories, Electrical, Backshell, Nonenvironmental, 90°, Shielded Termination, Category 3C (for MIL-DTL-38999 Series I and II Connectors).

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## CONNECTOR ACCESSORIES

Series III and IV:

- MIL-DTL-38999/28 - Connectors, Electrical, Circular, Nut, Hexagon, Connector Mounting, Series II and IV, Metric.
- MIL-DTL-38999/32 - Connectors, Electrical, Circular, Cover, Protective, Plug, Series III, Metric.
- MIL-DTL-38999/33 - Connectors, Electrical, Circular, Cover, Protective, Receptacle, Series III, Metric.
- MIL-DTL-38999/51 - Connector, Electrical Circular, Cover, Protective, Plug, MIL-DTL-38999 Series IV.
- MIL-DTL-38999/52 - Connector, Electrical Circular, Cover, Protective, Receptacle, MIL-DTL-38999 Series IV.
- MIL-DTL-38999/62 - Sealing Boot, Size 8, Pin or Socket, Shielded Crimp Contacts, Electrical Connector, Circular, Metric

## CROSS-REFERENCE

## Cross-reference of Superseded Documents

Superseded document	Superseded by	Superseded document	Superseded by
MS27481	MS27474	MS27667	-----
MS27482	MS27475	MS27668	SAE-AS85049/56
MS27483	MS27477	MS27669	SAE-AS85049/57
MS27485	SAE-AS85049/58	MS27670	SAE-AS85049/63
MS27486	SAE-AS85049/75	MIL-C-38999/1	SAE-AS85049/27
MS27489	SAE-AS85049/32	MIL-C-38999/2	SAE-AS85049/62
MS27498	MS27467	MIL-C-38999/3	SAE-AS85049/33
MS27504	MS27499	MIL-C-38999/4	SAE-AS85049/30
MS27506	SAE-AS85049/49	MIL-C-38999/5	SAE-AS85049/17
MS27507	SAE-AS85049/47	MIL-C-38999/6	SAE-AS85049/29
MS27663	SAE-AS85049/45, /46	MIL-C-38999/7	SAE-AS85049/36
MS27664	MS27467	MIL-C-38999/8	SAE-AS85049/37

## CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - AS  
Air Force - 85  
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2013-001)

Review activities:

Army - AR, MI  
Navy - EC, MC, OS  
Air Force - 19, 99  
DLA - IS  
Other - MDA

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.