

# MIL-C-38999 Series II Explanation

MIL-C-38999 Series II

Part Number Explanation: MS27472 T 18 B 35 P A

Below are the explanations for each or the coloured sections of the part number.

Shell Type

Code	Description	Available Class
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MS27472	Wall Mount Receptacle	E*, P, T
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MS27473	Straight plug	E*, P, T
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MS27474	Jam nut receptacle	E*, P, T
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MS27475	Hermetic wall mount receptacle	Y
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MS27476	Hermetic box mount receptacle	Y
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MS27477	Hermetic jam nut receptacle	Y
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MS27478	Hermetic solder mount receptacle	Y
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MS27479	Superseded by MS27472	E*, T
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MS27480	Superseded by MS27473	
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E\*, T

MS27481  
Superseded by MS27474  
E\*, T

MS27482  
Superseded by MS27475  
Y

MS27483

Superseded by MS27477

Y

MS27484  
Straight plug, EMI grounding  
E\*, P, T

MS27497  
Wall mount receptacle, back panel mounting  
E\*, P, T

MS27499  
Box mount receptacle  
E

MS27500  
Superseded by MS27473 with MS85049/47 backshell  
E

MS27503  
Superseded by MS27478  
Y

MS27504  
Superseded by MS27499  
E\*

MS27508  
Box mount receptacle, back panel mounting  
E

MS27513  
Box mount receptacle, long grommet  
E

MS27664

Superseded by MS27497  
E\*, T

\* Inactive for new design. Use Class T.

## Class

Code  
Description

E

Environmental, may or may not have teeth or rear of shell. Current for MS27496, MS27505, and MS27662. Inactive for new design for all others. Use Class T.

P

Potting, includes potting boot and short rear grommet. Inactive for new Air Force design.

T

Environmental, with teeth on rear of shell, less rear hardware.

Y

Hermetic

## Shell Size

8, 10, 12, 14, 16, 18, 20, 22, 24

## Material & Finish

Code  
Material

Finish  
Temp Range

A  
Aluminum

Bright or gold cadmium over nickel  
-65° C to +150° C

B  
Aluminum

Olive drab cadmium over nickel  
-65° C to +175° C

C  
Aluminum

Non-conductive anodize

-65° C to +200° C

D  
Steel  
Fused tin, class Y only  
-65° C to +150° C

E  
Stainless Steel  
Passivated, class Y only  
-65° C to +200° C

F  
Aluminum

Electroless nickel  
-65° C to +200° C

N  
Stainless Steel  
Electro deposited nickel  
-65° C to +200° C

MIL-C-38999 Inserts 87.68 Kb

## Contact Style

A - Connector less pin contacts.

B - Connector less socket contacts.

P - Pin contacts, 500 cycles (crimp and hermetic with solder cups).

S - Socket contacts, 500 cycles (crimp and hermetic with solder cups).

X - Pin with eyelet (hermetic only).

Z - Socket with eyelet (hermetic only).

N.B. All shell types, receptacles and plugs, are available with either male pins or female socket contacts

## Polarization

Blank - Normal

MIL-C-38999 Rotations 53.38 Kb