

# MIL-C-22992, Class L

## how to order

Connectors are supplied with removable contacts unassembled and applicable accessories as listed in the individual connector style descriptions, pages 8 through 11. Additional/replacement contacts or accessories may be ordered by their MS designations.

Connectors are ordered by MS designation. To illustrate the ordering procedure, part number MS90555 C32412SY is shown as follows:

PART NUMBER

MS90555    C    32    4    12    S    Y

1            2    3    4    5    6    7

### 1. MS Number -

- MS90555 designates wall mount receptacle (*power source*)
- MS90556 designates straight plug
- MS90557 designates cable connecting receptacle without coupling ring
- MS90558 designates wall mount plug with coupling ring (*equipment end*)

### 2. Shell Finish - C (conductive) for AC or N (nonconductive) for DC circuits.

Grounding Assemblies: Finish C

Shell Size	Current Rating Amps	Shell Master Key/Keyway Position						
		60Hz & 400Hz						
		1 Phase			3 Phase			
		2 Wire		3 Wire	4 Wire			
	120 VAC	240 VAC	120/240 VAC	450/480 VAC	120/208 VAC	240/416 VAC	277/480 VAC	
28	40	4 (120°)	5 (135°)	4 (120°)	---	4 (120°)	5 (135°)	6 (150°)
32	60	4 (120°)	5 (135°)	4 (120°)	---	4 (120°)	5 (135°)	6 (150°)
44	100	4 (120°)	---	4 (120°)	1 (60°)	4 (120°)	5 (135°)	6 (150°)
52	200	---	---	4 (120°)	---	4 (120°)	5 (135°)	6 (150°)

Non-grounding Assemblies: Finish N

Shell Size	Current Rating Amps	Shell Master/Keyway Position
		DC
		2 Wire
		28 VDC
28	40	N (105°)
32	60	N (105°)
44	100	N (105°)
52	200	N (105°)

### 3. Shell Size - related directly to current carrying capability.

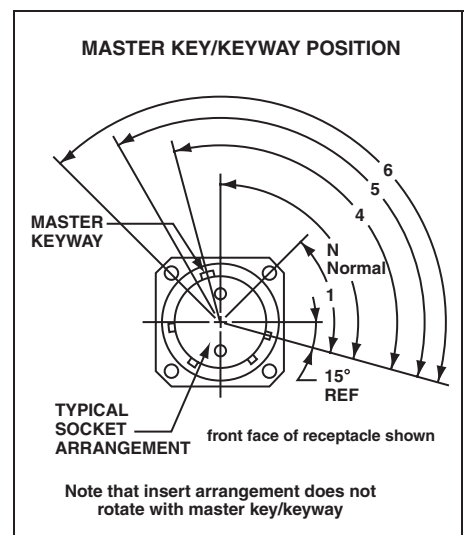
- Size 28 - 40 amperes
- Size 32 - 60 amperes
- Size 44 - 100 amperes
- Size 52 - 200 amperes

### 4. Master Key/Keyway Position - N designates normal position. Positions 1, 4, 5 and 6 of the master key/keyway prevent cross-mating of incompatible voltages. Refer to the adjacent illustration.

### 5. Insert Arrangement - determined by connector size (current carrying capability) and cable configuration to be accommodated. Refer to pages 5 & 6.

### 6. Contact Type - P for pin, S for socket. MS90555 and MS90557 are supplied with socket contacts **only**. MS90556 and MS90558 are supplied with pin contacts **only**.

### 7. Alternate Insert Rotation - used to prevent cross-mating of incompatible frequencies. Absence of a letter in this space indicates normal (0°) position of the insert. Refer to page 7.



Amphenol Federal Vendor Identification  
FSCM77820

# MIL-C-22992, QWLD

## how to order

### MS-APPROVED CONNECTORS

To illustrate the ordering procedure, part number MS17343R20N27PW is shown as follows:

PART NUMBER						
<u>MS17343</u>	<u>R</u>	<u>20</u>	<u>N</u>	<u>27</u>	<u>P</u>	<u>W</u>
1	2	3	4	5	6	7

#### 1. MS Number -

- MS17343 designates wall mount receptacle
- MS17344 designates straight plug
- MS17345 designates cable connecting plug
- MS17346 designates box mount receptacle
- MS17347 designates jam nut receptacle with rear accessory threads (wall mount)
- MS17348 designates jam nut receptacle (box mount)

#### 2. Class -

- C designates pressurized - used where circuit integrity is protected by a pressure differential
- R designates environmental - see table, page 1

#### 3. Shell Size -

available in shell sizes 12 through 44. Refer to pages 53 through 59 for dimensional data.

#### 4. Shell Finish -

C for conductive or N for non-conductive

#### 5. Insert Arrangement -

current MS insert arrangements are shown in black in the QWLD insert arrangements section of this catalog. Only these arrangements are available in MS-approved connectors.

#### 6. Contact Type -

P for pin, S for socket

#### 7. Alternate Insert Rotation -

used to prevent cross-mating of connectors. Absence of a letter in this space indicates normal (0°) position of the insert. Refer to page 26 for alternate insert rotation illustrations.

### QWLD INDUSTRIAL VERSIONS

These heavy duty connectors are identical to MS-approved types except for the added flexibility of connector shell and contact type and finish options, plus added insert arrangements. To illustrate the ordering procedure, part number 10-194622-14S is shown as follows:

PART NUMBER					
10	-	194	6	22-14	S
<u>1</u>		<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>

#### 1. Base Number Prefix -

- used to define connector shell finish and contact type and finish
- 10 - Solder type contacts, silver plated
- 75- Crimp type contacts, silver plated
- 81- Crimp type contacts, plated .0001 gold over silver
- 82- Crimp type contacts for MIL-C-13777 cable, silver plated
- 83- Crimp type contacts for MIL-C-13777 cable, plated .0001 gold over silver
- 85- Crimp type contacts, plated .00005 gold over silver
- All above prefix numbers utilize connector shells with Alumilite\* non-conductive finish*
- 88- Solder type contacts, silver plated. Connector shell utilizes olive drab cadmium plate over nickel conductive finish.

#### 2. Base Number -

QWLD Series Heavy Duty Cylindrical Connector

#### 3. Shell Style -

- 0 designates wall mount receptacle
- 1 designates cable connecting plug
- 2 designates box mount receptacle
- 3 designates jam nut receptacle with rear accessory threads (wall mount)
- 4 designates thru bulkhead receptacle
- 6 designates straight plug
- 9 designates jam nut receptacle (box mount)

#### 4. Shell Size/Insert Arrangement -

Amphenol® QWLD connectors are available in equivalent MS shell sizes with all current MS insert arrangements as well as a large selection of special arrangements for power and signal circuits. Select the required insert arrangement number from those shown in black (MS arrangements) or red (industrial arrangements).

#### 5. Contact Type/Alternate Insert Rotation -

P for pin, S for socket. When an alternate position of the connector insert is required to prevent cross-mating of connectors, a different letter (other than P or S) is used. Select from the table below the Amphenol® letter which indicates both type of contact and insert rotation desired. Refer to page 26 for alternate insert rotation illustrations.

Pin Contacts		Socket Contacts	
MS Letters	Amphenol® Letters	MS Letters	Amphenol® Letters
P	P (normal)	S	S (normal)
PW	G	SW	H
PX	I	SX	J
PY	K	SY	L
PZ	M	SZ	N

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