

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.

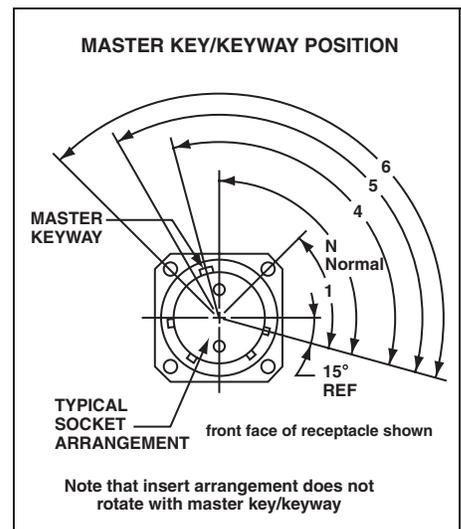
- Size 28 - 40 amperes
- Size 32 - 60 amperes
- Size 44 - 100 amperes
- Size 52 - 200 amperes

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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