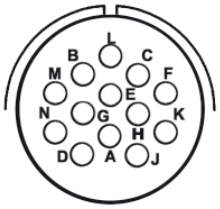
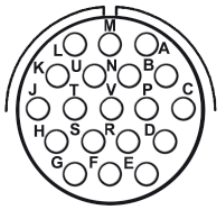
# INSERT LAYOUTS AND WIRING LIST

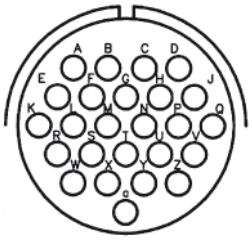
## FRONT VIEW OF MALE INSERT



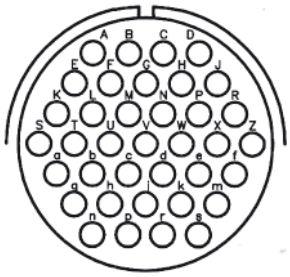

13 pin / size 20



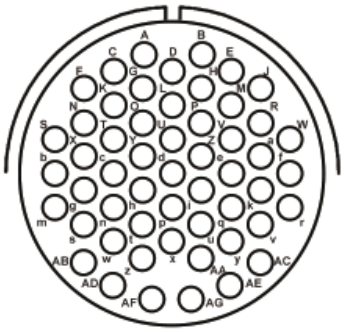

19 pin / size 20



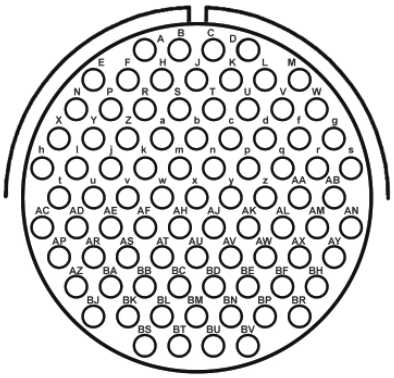

25 pin / size 24



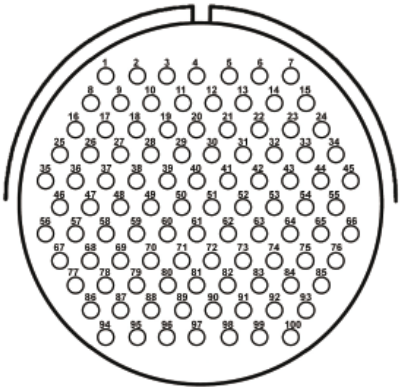

37 pin / size 28



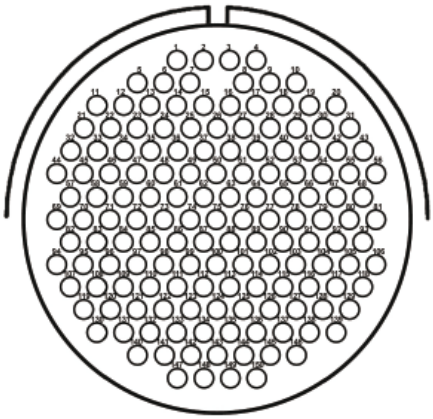

54 pin / size 32




85 pin / size 40



100 pin / size 40



150 pin / size 40

| 13 pin - 4 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | M | B | L |
| 2 | N | G | E |
| 3 | D | A | H |
| 4 | J | K | F |

| 19 pin - 6 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | A | M | L |
| 2 | C | P | B |
| 3 | N | U | V |
| 4 | T | J | K |
| 5 | D | R | E |
| 6 | F | G | S |

| 25 pin - 8 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | A | E | F |
| 2 | G | C | B |
| 3 | D | H | J |
| 4 | M | L | K |
| 5 | Q | P | N |
| 6 | W | S | R |
| 7 | T | X | Y |
| 8 | Z | V | U |

| 37 pin - 12 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | E | F | A |
| 2 | B | C | G |
| 3 | H | J | D |
| 4 | S | T | K |
| 5 | L | M | U |
| 6 | V | W | N |
| 7 | P | R | X |
| 8 | a | b | g |
| 9 | c | d | j |
| 10 | e | f | m |
| 11 | n | p | h |
| 12 | r | s | k |

| 54 pin - 16 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | W | f | r |
| 2 | J | R | a |
| 3 | k | v | AC |
| 4 | E | M | V |
| 5 | e | q | y |
| 6 | B | H | P |
| 7 | Z | j | u |
| 8 | D | L | U |
| 9 | d | p | x |
| 10 | A | G | O |
| 11 | Y | h | t |
| 12 | C | K | T |
| 13 | c | n | w |
| 14 | F | N | X |
| 15 | g | s | AB |
| 16 | S | b | m |

| 85 pin - 28 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | A | B | C |
| 2 | E | F | H |
| 3 | J | K | L |
| 4 | N | P | R |
| 5 | S | T | U |
| 6 | X | Y | Z |
| 7 | a | b | c |
| 8 | d | f | g |
| 9 | h | l | j |
| 10 | k | m | n |
| 11 | p | q | r |
| 12 | t | u | v |
| 13 | w | x | y |
| 14 | z | AA | AB |
| 15 | AC | AD | AE |
| 16 | AF | AH | AJ |
| 17 | AK | AL | AM |
| 18 | AP | AR | AS |
| 19 | AT | AU | AV |
| 20 | AW | AX | AY |
| 21 | AZ | BA | BB |
| 22 | BC | BD | BE |
| 23 | BJ | BK | BL |
| 24 | BM | BN | BP |
| 25 | BS | BT | BU |
| 26 | BV | BR | BF |
| 27 | BH | AN | s |
| 28 | W | M | D |

| 100 pin - 32 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | 1 | 2 | 3 |
| 2 | 4 | 5 | 6 |
| 3 | 7 | 8 | 9 |
| 4 | 10 | 11 | 12 |
| 5 | 13 | 14 | 15 |
| 6 | 16 | 17 | 18 |
| 7 | 19 | 20 | 21 |
| 8 | 22 | 23 | 24 |
| 9 | 25 | 26 | 27 |
| 10 | 28 | 29 | 30 |
| 11 | 31 | 32 | 33 |
| 12 | 34 | 35 | 36 |
| 13 | 37 | 38 | 39 |
| 14 | 40 | 41 | 42 |
| 15 | 43 | 44 | 45 |
| 16 | 46 | 47 | 48 |
| 17 | 49 | 50 | 51 |
| 18 | 52 | 53 | 54 |
| 19 | 55 | 56 | 57 |
| 20 | 58 | 59 | 60 |
| 21 | 61 | 62 | 63 |
| 22 | 64 | 65 | 66 |
| 23 | 67 | 68 | 69 |
| 24 | 70 | 71 | 72 |
| 25 | 73 | 74 | 75 |
| 26 | 76 | 77 | 78 |
| 27 | 79 | 80 | 81 |
| 28 | 82 | 83 | 84 |
| 29 | 85 | 86 | 87 |
| 30 | 88 | 89 | 90 |
| 31 | 91 | 92 | 93 |
| 32 | 94 | 95 | 96 |
| 33 | 97 | 98 | 99 |

| 150 pin - 48 channels | | | |
|---|---|---|---|
| Ch No. | Hot + | Cold - | Gnd ⏚ |
| 1 | 1 | 2 | 3 |
| 2 | 5 | 6 | 7 |
| 3 | 8 | 9 | 10 |
| 4 | 11 | 12 | 13 |
| 5 | 14 | 15 | 16 |
| 6 | 17 | 18 | 19 |
| 7 | 21 | 22 | 23 |
| 8 | 24 | 25 | 26 |
| 9 | 27 | 28 | 29 |
| 10 | 20 | 30 | 31 |
| 11 | 32 | 33 | 34 |
| 12 | 35 | 36 | 37 |
| 13 | 38 | 39 | 40 |
| 14 | 41 | 42 | 43 |
| 15 | 44 | 45 | 46 |
| 16 | 47 | 48 | 49 |
| 17 | 50 | 51 | 52 |
| 18 | 53 | 54 | 55 |
| 19 | 57 | 58 | 59 |
| 20 | 60 | 61 | 62 |
| 21 | 63 | 64 | 65 |
| 22 | 66 | 67 | 68 |
| 23 | 69 | 70 | 71 |
| 24 | 72 | 73 | 74 |
| 25 | 75 | 76 | 77 |
| 26 | 78 | 79 | 80 |
| 27 | 82 | 83 | 84 |
| 28 | 85 | 86 | 87 |
| 29 | 88 | 89 | 90 |
| 30 | 91 | 92 | 93 |
| 31 | 94 | 95 | 96 |
| 32 | 97 | 98 | 99 |
| 33 | 100 | 101 | 102 |
| 34 | 103 | 104 | 105 |
| 35 | 56 | 81 | 106 |
| 36 | 107 | 108 | 109 |
| 37 | 110 | 111 | 112 |
| 38 | 113 | 114 | 115 |
| 39 | 116 | 117 | 118 |
| 40 | 119 | 120 | 121 |
| 41 | 122 | 123 | 124 |
| 42 | 125 | 126 | 127 |
| 43 | 139 | 128 | 129 |
| 44 | 130 | 131 | 132 |
| 45 | 133 | 134 | 135 |
| 46 | 136 | 137 | 138 |
| 47 | 140 | 141 | 142 |
| 48 | 143 | 144 | 145 |