



9	E20 WHITE	18	E20 BROWN		
8	E20 VIOLET	17	E20 BLUE		
7	E20 ORG	16	E20 BLACK	25	E20 GREEN
6	E20 WHITE	15	E20 ORG	24	E20 BLUE
5	E20 GRAY	14	E20 YLW/WHT	23	E20 GRAY
4	E20 VIOLET	13	E20 YELLOW	22	E20 ORG
3	E20 BLACK	12	E20 BLUE	21	E20 BLACK
2	E20 WHITE	11	E20 GRAY	20	E20 BROWN
1	E20 YLW/WHT	10	E20 VIOLET	19	E20 YELLOW
POS	PART#	POS	PART#	POS	PART#

16	1	171-025-103L001	PLUG D-SUB 25 #20 PINS PBT INSULATOR, NICKEL PLATED STEEL SHELL, GOLD PLATED BRASS PINS
15	2	E20 YELLOW	WIRE 20E MIL-W-16878/4 .01 7/#28
14	2	E20 BROWN	WIRE 20E MIL-W-16878/4 .01 7/#28
13	3	E20 ORG	WIRE 20E MIL-W-16878/4 .01 7/#28
12	1	E20 GREEN	WIRE 20E MIL-W-16878/4 .01 7/#28
11	3	E20 BLUE	WIRE 20E MIL-W-16878/4 .01 7/#28
10	3	E20 GRAY	WIRE 20E MIL-W-16878/4 .01 7/#28
9	3	E20 VIOLET	WIRE 20E MIL-W-16878/4 .01 7/#28
8	3	E20 WHITE	WIRE 20E MIL-W-16878/4 .01 7/#28
7	3	E20 BLACK	WIRE 20E MIL-W-16878/4 .01 7/#28
6	2	E20 YLW/WHT	WIRE 20E MIL-W-16878/4 .01 7/#28
5	2	JACKPOST 4-40	"P" STYLE 4-40 UNC
4	1	-026 VITON	O-RING -026 VITON 75
3	A/R	PAVE-Seal 150	EPOXY BLACK
2	1	3526	PLATE TOP SS D-SUB 25
1	1	171-025-203L001	RCPT D-SUB 25 #20 SOCKETS PBT INSULATOR, NICKEL PLATED STEEL SHELL, GOLD PLATED BRASS SOCKETS
ITEM	QTY	PART NUMBER	DESCRIPTION

- NOTES:
- HE LEAK TEST @ 1 ATM 1X10⁻⁷ CC/SEC OR LESS. A GREEN PAINT DOT ON THE ATMOSPHERE SIDE INDICATES THE PART HAS PASSED THE TEST.
 - HYPOT 630 VDC 500 MEGOHMS MINIMUM 0.01 SECOND MINIMUM WIRE TO WIRE.
 - CONTINUITY TEST <60 MILLIOhms MATING CONNECTOR TO WIRE ENDS.
 - ALL TESTS ARE PERFORMED AT ROOM TEMPERATURE.
 - ALL PARTS MUST PASS ALL TESTS.
 - COSMETIC SURFACE VOIDS NOT ON O-RING SEALING SURFACES ARE ACCEPTABLE BASED ON THE SEAL'S DIAMETER:
 <= .5 [12.7] SEAL DIAMETER: Ø.035 [.89] MAX ALLOWED VOID SIZE
 > .5 [12.7] SEAL DIAMETER: Ø.060 [1.5] MAX ALLOWED VOID SIZE
 REF-OPERATING TEMPERATURE RANGE -20 °C TO 105 °C.
 - DIMENSIONS ARE INCHES [millimeters].
 - ITEM 16 (MATING SOLDERCUP PLUG) IS INCLUDED, BUT NOT SHOWN.
 - ALCOHOL OR FOMBLIN YVAC 3 MAY BE USED TO LUBRICATE O-RINGS FOR VACUUM HELIUM LEAK TESTING.

ALL DIMENSIONS AND TOLERANCES APPLY TO FINISHED PART IN INCHES.
 ALLOWABLE TOLERANCES UNLESS SPECIFIED OTHERWISE: NONE ±0.5
 X.X DECIMAL ±0.1 X.XX DECIMAL ±0.02 X.XXX DECIMAL ±0.005
 ANGLES ±1 DEGREE SURFACE FINISH 128 microinch RMS

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DESCRIPTION
 SP44/13-E-150-25-TE20-DSUB25-24

PART NUMBER
5444

MATERIAL NOTED

REVISION LEVEL
 A

PROJECTION