

## ENGINEERING DATA

The following information is provided for the convenience of engineers and technical writers as well as individuals who require additional information about **Kern** products. All tests reported herein were conducted in accordance with accepted practices by independent laboratories, or by other independent entities qualified in the types of testing involved.

### FUNCTIONAL TESTING:

In order to firmly establish the EMI / RFI characteristics of microminiature connector backshells manufactured by **Kern Engineering and Manufacturing Corp.** of Fullerton, California, a series of quantitative performance tests were conducted on a range of designs, to frequencies of 1 GHz. Results of these performance tests show that shielding effectiveness from 60 dB to well in excess of 100 dB can be achieved dependent on design configuration.

### MAGNETIC PERMEABILITY TESTING:

Magnetic permeability tests were conducted in accordance with MIL-I-17214 and showed all values below 1.2 mu.

### ENVIRONMENTAL TESTING:

Vibration tests were conducted in accordance with MIL-STD-1344A, Method 2005.1, Test Condition IV. (monitored to .01 ms). During these tests, no contact interruptions between the shield and backshell occurred, and there was no physical damage.

Shock tests were conducted in accordance with MIL-STD-1344A Method 2004.1, Test Condition C (monitored to .01 ms). During these tests, no contact interruptions between the shield and backshell occurred and there was no physical damage.

TABLE 10

## STANDARD FINISHES

FINISH CODE	DESCRIPTION
B	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 3.
C	CHEMICAL FILM, (IRRIDITE OR ALODINE) PER MIL-C-5541, TYPE I, GRADE C, CLASS 3.
F	CADMIUM PLATE, BRIGHT DIP, PER QQ-P-416, TYPE I, CLASS 3, OVER ELECTROLESS NICKEL PER MIL-C-26074, CALSS 3 OR 4, GRADE B.
J	ELECTROLESS NICKEL PLATE PER MIL-C-26074, CLASS 3 OR 4, GRADE B.
L	TIN PLATE PER MIL-T-10727 TYPE I.
M	CADMIUM PLATE, GOLD IRRIDITE, PER QQ-P-416, TYPE II, CLASS 3, OVER NICKEL STRIKE OR FLASH PER MIL-C-26074 OR QQ-N-290
N	GOLD PLATE PER MIL-G-45204, TYPE II, CLASS 3, GRADE 3C.
R	BLACK ANODIZE PER MIL-A-8625, TYPE II, CLASS 2.
W	CADMIUM PLATE, OLIVE DRAB, PER QQ-P-416, TYPE II, CLASS 2, OVER ELECTROLESS NICKEL PER MIL-C-26074, CLASS 3 OR 4, GRADE B. (TO WITHSTAND 500 HR. SALT SPRAY TEST)
Z	CUSTOM FINISHED TO YOUR SPECIFICATION

## TERMINATION TOOLS

**BAND  
TERMINATION  
PLIERS**  
PART NO. T2624

**TERMINATION  
BANDS**  
1/8 INCH WIDTH  
PART NO. 13049  
1/4 INCH WIDTH  
PART NO. 13076



**CRIMP  
FERRULE  
PLIERS**  
PART NO. T2625

