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SHV Female Bulkhead Connector**Description****⚠ WARNING**

The Model 2290-10 can contain hazardous voltages. Be certain that the high voltage is completely discharged before removing or connecting the high-voltage cable. High-voltage cables can store charge if they are disconnected from the supply while high voltage is turned on and can cause personal injury or death if not handled properly. Do not connect the HIGH-VOLTAGE output to exposed circuitry. Any load connected to the HIGH-VOLTAGE output should be enclosed in a metal shield that is connected to safety earth ground using #18AWG or larger wire.

The high-voltage 10 kV SHVBH SHV female bulkhead connector connects to the Model 2290-10-SHVUC male to unterminated cable (refer to document number 077084500 for more information).

High-voltage installation:

1. Turn off power and allow all voltage to discharge.
2. Install the Model 2290-10-SHVBH female bulkhead connector to the Model 2290-10-SHVUC male to unterminated cable (see next figure).

Figure 1: Model 2290-20 SHV female bulkhead connector

**Electrical characteristics**

Nominal impedance	non-constant
Voltage rating	10 kV DC
Insulation resistance	10E ⁶ MΩ



Material characteristics

- A. Insulator: high-density polyethylene, ASTM-D4976, natural
- B. O-rings: silicone rubber, A-A-59588
- C. Lock-washer: phosphor bronze
- D. All other parts: brass, ASTM-B16
- E. Center contact: gold plate per ASTM-B488
- F. Leakage may not exceed 10×10^{-7} cc/second of tracer gas at atmospheric pressure