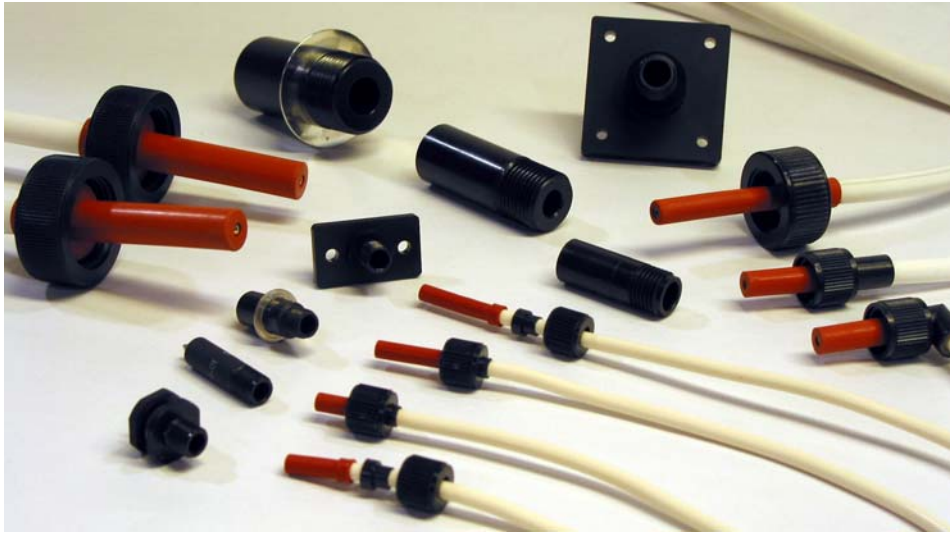


HVL Series



High Voltage Lead Assemblies

Features:

- Field or Factory Assembled
- Space Saving
- Fast Connect and Disconnect
- Temperature Range:
–55°C thru +125°C
- Positive Mating
- Vibration and Shock Resistant
- 10 Amps Current Capacity
- Reliable Performance
- Radiation Resistant
- Materials Conform to Military Specifications
- Threaded Coupling
- 10 thru 50 KVDC Operating Voltage, to 70,000 Ft altitude
- Corona Resistant
- Designs Qualified on Numerous Military Programs

Connectronics
Corp. Interconnection Specialists

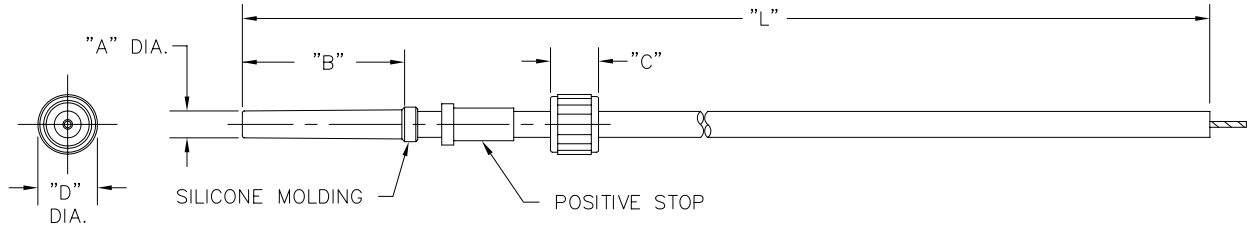


Corporate Office
& Manufacturing Facilities:
2745 Avondale • P.O. Box 3355
Toledo, Ohio 43607

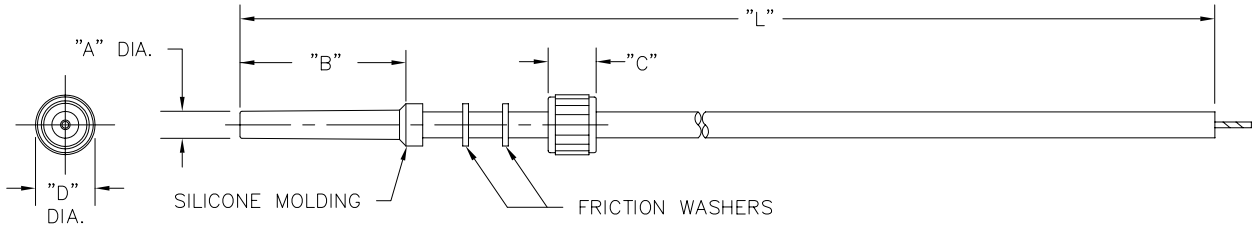
Phone: 419-537-0020
Fax: 419-537-0007
E-mail: info@connectronicscorp.com
Visit Us On Our Web Site @
www.connectronicscorp.com

HVL PLUG ASSEMBLIES

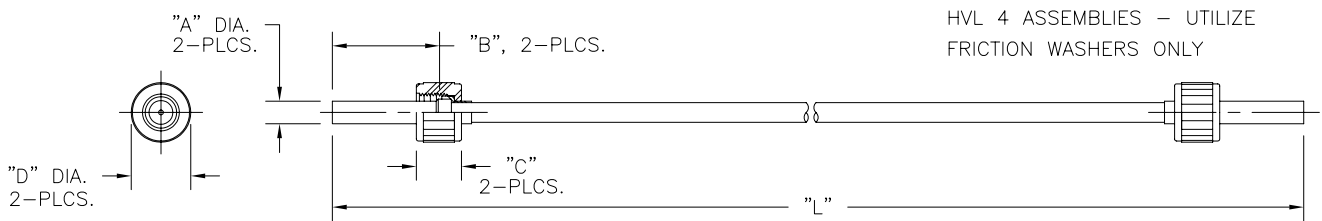
STYLE 1, STRAIGHT HVL PLUG



STYLE 2, STRAIGHT HVL PLUG, STANDARD



STYLE 3, STRAIGHT HVL PLUG, DOUBLE ENDED



| PART NO. | VOLTAGE RATING (KVDC) | | HVL STYLE | STYLE | "A" DIA. | "B" | WIRE SIZE | | COUPLING NUT | | |
|--------------|-----------------------|-----|-----------|-------|----------|------|-----------|-----------|--------------|-----|----------|
| | OPERATING | DWV | | | | | AWG | NOM. DIA. | THREAD SIZE | "C" | "D" DIA. |
| 10200-[X][X] | 10 | 15 | 1/2 | 1 | .186 | .53 | 16 | .16 | .3125-32 | .38 | .44 |
| 10283-[X][X] | 10 | 15 | 1/2 | 3 | .186 | .53 | 16 | .16 | .3125-32 | .38 | .44 |
| 10199-[X][X] | 15 | 20 | 1/2 L | 1 | .186 | .89 | 16 | .16 | .3125-32 | .38 | .44 |
| 10711-[X][X] | 15 | 20 | 1/2 L | 2 | .186 | .89 | 16 | .16 | .3125-32 | .38 | .44 |
| 10282-[X][X] | 15 | 20 | 1/2 L | 3 | .186 | .89 | 16 | .16 | .3125-32 | .38 | .44 |
| 10102-[X][X] | 20 | 25 | 1 | 1 | .300 | .88 | 16 | .27 | .5000-20 | .50 | .62 |
| 10546-[X][X] | 20 | 25 | 1 | 3 | .300 | .88 | 16 | .27 | .5000-20 | .50 | .62 |
| 10221-[X][X] | 25 | 38 | 1 L | 1 | .300 | 1.69 | 16 | .27 | .5000-20 | .50 | .62 |
| 11093-[X][X] | 25 | 38 | 1 L | 3 | .300 | 1.69 | 16 | .27 | .5000-20 | .50 | .62 |
| 11146-[X][X] | 30 | 45 | 2 | 1 | .440 | 1.43 | 16 | .38 | .7500-16 | .56 | 1.12 |
| 11156-[X][X] | 30 | 45 | 2 | 2 | .440 | 1.43 | 16 | .38 | .7500-16 | .56 | 1.12 |
| 10909-[X][X] | 40 | 55 | 3 | 2 | .300 | 1.81 | 16 | .27 | .7500-16 | .56 | 1.12 |
| 11094-[X][X] | 40 | 55 | 3 | 3 | .300 | 1.81 | 16 | .27 | .7500-16 | .56 | 1.12 |
| 10787-[X][X] | 50 | 60 | 4 | 2 | .440 | 2.00 | 14 | .39 | 1.000-14 | .56 | 1.38 |
| 10714-[X][X] | 50 | 60 | 4 | 3 | .440 | 2.00 | 14 | .39 | 1.000-14 | .56 | 1.38 |

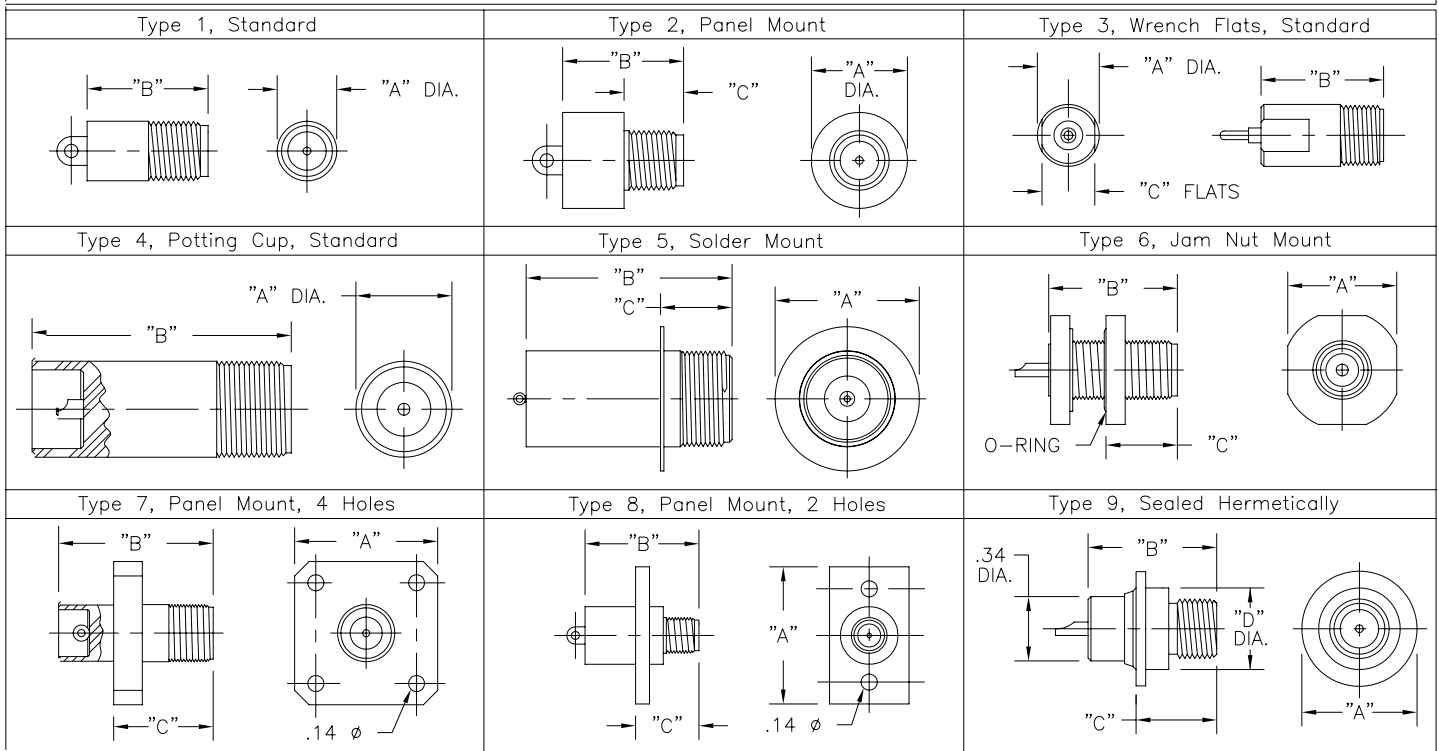
For Applications Where Maximum Fluid Resistance Is Required, Fluorosilicone Molded Noses are Available. Additionally, metallic shields can be added to any cable assembly to reduce RF noise. Consult Factory For Additional Information.

Standard Coupling Nut Color Is Black - Red and Green are Also Available - Consult Factory for Additional Information.

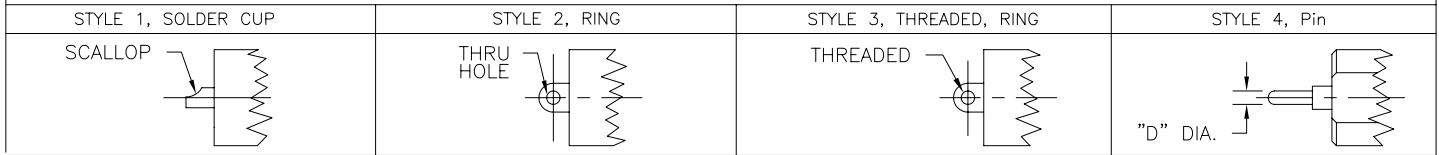
"L" Length Dimensions are Manufactured To Specific Needs At Any Desired Length. Consult Factory For Additional Information.

Plug Assemblies and Receptacles Shown are Commonly used Connectors. Many Variations of These Products are Available as Well as Custom Designs. Consult Connectronics for Information on Connectors for Applications not Satisfied by Components Listed.

HVL RECEPTACLE ASSEMBLIES



TERMINAL STYLES



| PART NO. | VOLTAGE RATING (KVDC) | | HVL SERIES | TYPE | TERM. STYLE | "A" | "B" | "C" | "D" DIA. | THREAD SIZE |
|----------|-----------------------|-----|------------|------|-------------|------|------|------|----------|-------------|
| | OPERATING | DWV | | | | | | | | |
| 10070-01 | 10 | 15 | 1/2 | 5 | 2 | .57 | .62 | .40 | N/A | .3125-32 |
| 10079-01 | 10 | 15 | 1/2 | 1 | 2 | .31 | .63 | N/A | N/A | .3125-32 |
| 10080-01 | 10 | 15 | 1/2 | 2 | 2 | .50 | .62 | .31 | N/A | .3125-32 |
| 10106-01 | 10 | 15 | 1/2 | 3 | 4 | .31 | .64 | .27 | .045 | .3125-32 |
| 10313-01 | 10 | 15 | 1/2 | 4 | 1 | .31 | 1.01 | N/A | N/A | .3125-32 |
| 10315-01 | 10 | 15 | 1/2 | 1 | 1 | .31 | .68 | N/A | N/A | .3125-32 |
| 10489-01 | 5 | 6 | 1/2 | 9 | 1 | .60 | .67 | .42 | N/A | .3125-32 |
| 10583-01 | 10 | 15 | 1/2 | 6 | 1 | .57 | .68 | .38 | N/A | .3125-32 |
| 10092-01 | 15 | 20 | 1/2 L | 2 | 2 | .50 | 1.00 | .31 | N/A | .3125-32 |
| 10312-01 | 15 | 20 | 1/2 L | 4 | 1 | .31 | 1.36 | N/A | N/A | .3125-32 |
| 10314-01 | 15 | 20 | 1/2 L | 1 | 1 | .31 | 1.07 | N/A | N/A | .3125-32 |
| 10730-01 | 15 | 20 | 1/2 L | 8 | 2 | 1.19 | 1.00 | .56 | N/A | .3125-32 |
| 10464-01 | 20 | 30 | 1 | 4 | 1 | .50 | 1.34 | N/A | N/A | .5000-20 |
| 10628-01 | 20 | 30 | 1 | 7 | 2 | 1.25 | 1.25 | .87 | N/A | .5000-20 |
| 10733-01 | 25 | 38 | 1 L | 4 | 1 | .50 | 2.13 | N/A | N/A | .5000-20 |
| 10775-01 | 25 | 38 | 1 L | 7 | 2 | 1.75 | 2.03 | 1.20 | N/A | .5000-20 |
| 11157-01 | 30 | 45 | 2 | 4 | 2 | 1.75 | 1.81 | .81 | N/A | .7500-16 |
| 10823-01 | 40 | 55 | 3 | 4 | 1 | .75 | 2.19 | N/A | N/A | .7500-16 |
| 10823-02 | 40 | 55 | 3 | 1 | 2 | .75 | 1.94 | N/A | N/A | .7500-16 |
| 10897-01 | 50 | 60 | 4 | 5 | 1 | 1.50 | 2.14 | N/A | N/A | 1.000-14 |
| 10897-02 | 50 | 60 | 4 | 1 | 1 | 1.00 | 2.14 | N/A | N/A | 1.000-14 |

Consult Connectronics for Information on Connectors for Applications
not Satisfied by Components Listed. 419-537-0020

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Phone: 419-537-0020

CUSTOMER FIELD ASSEMBLED HVL PLUG ASSEMBLIES

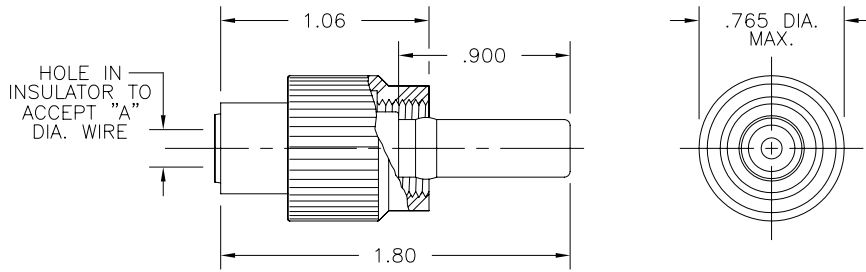
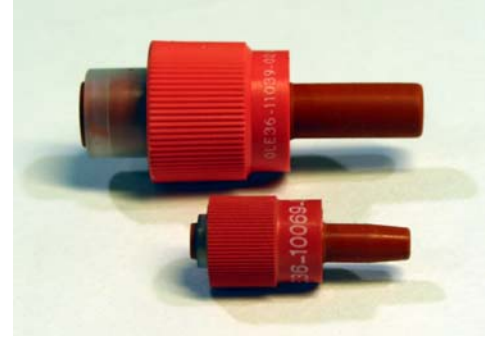


FIG. 1, HVL-1 PLUG
P/N: 11039-XX



| PART NO. | "A" | FIG. |
|----------|------|------|
| 11039-01 | .150 | 1 |
| 11039-02 | .180 | 1 |
| 11039-03 | .280 | 1 |
| 11039-04 | .100 | 1 |
| 10069-01 | .155 | 2 |

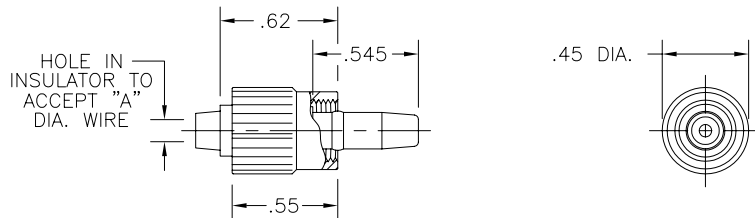


FIG. 2, HVL-1/2 PLUG
P/N: 10069-01

Field assembled HVL plug assemblies offer the same performance characteristics as the factory terminated assemblies. Size #16 solder style socket contacts accept up to a #16 awg stranded wire, and both are bonded into the insulator using RTV Silicone Adhesive.

Connectronics Corp. offers a complete line of high voltage silicone insulated wire and cable for use with these connectors. Consult factory for additional information.

TECHNICAL DATA

DESCRIPTION:

Connectronics' High Voltage Lead Assemblies (HVL) are small in size and lightweight, but are still able to provide extreme reliability and peak performance. They are manufactured to specific needs at any desired length. All HVL plug assemblies utilize silicone insulated wire and can be provided with metallic shields to reduce RF noise. To guard against severe abrasion damage, leads can have the added protection of an outer Nomex or glass braided jacket.

APPLICATION:

Connectronics High Voltage Lead Assemblies (HVL) were designed and are manufactured for high reliability and economical use in CRT/Displays, ECM Equipment, Medical, Power Supplies, Radar, and Lasers. They are equally applicable to low-temperature, low-altitude, high-voltage devices. Many other combinations are available as complete cable assemblies, including shielded assemblies with mating receptacles utilizing metal shells to ensure 100% shielding effectiveness. Contact Connectronics for your unique design requirements. Let us design and manufacture what you need.

SPECIFICATIONS:

Materials:

Plug Body: Molded Silicone per ZZ-R-765. Color-Red Iron Oxide.
 Wire: Silver or Tin Plated Stranded Conductor, Silicone Insulated.
 Standard Color-White. For other colors contact Connectronics.
 Coupling Nut: Molded Thermoplastic per MIL-M-14. Standard
 Color-Black. For other available colors, contact Connectronics.
 Receptacle Body: Molded Epoxy per MIL-M-14. Color-Black.
 Socket Contact: per MIL-C-39029.
 Positive Stop: Molded Thermoplastic per MIL-M-14. Color-Black
 O-Ring: Silicone, meets AMS-3304.

Environmental:

Operating Temperature Range: -55°C thru +125°C.
 Storage Temperature Range: -60°C thru +160°C.
 Humidity: per Method 103-B of MIL-STD-202 Cond. B.
 Salt Spray: per Method 101 of MIL-STD-202 Cond. B.
 Moisture Resistance: per Method 106-D of MIL-STD-202.

Mechanical:

Vibration: per Method 201-A of MIL-STD-202.
 Shock: per Method 213-B of MIL-STD-202, COND. K.

Electrical:

Insulation Resistance Test: per MIL-STD-202, Method 302.
 Dielectric Withstanding Voltage (DWV): Voltages shown in p/n chart.
 DWV test conducted at 70,000 Ft., -55°C to +125°C for qualification only. Normal production testing is preformed at sea level/ambient conditions, Maximum allowable leakage current: 5 microamps.