

DE Group Series 17

In addition to being an alternate to the AMPLGH product, the 17 Series offers reliability and affordability at costs below conventional shell type connectors. Each are single conductor for high voltage application where a “steady-state” voltage is required. The plug connector interface body is molded directly onto the wire for maximum dielectric and physical strength. Four voltage designs are available: 10, 15, 25 and 40 KVDC.



General Design Specifications

1.0) ELECTRICAL (when properly mated)

- 1.1) Operating Voltage Range: 10 thru 40 KVDC
- 1.2) Current Range, Continuous: 6.5 – 10 AMPS

2.0) ENVIRONMENTAL

- 2.1) Altitude: Sea Level to 70,000 Feet
- 2.2) Operating Temperature Range: -55° C to +125° C

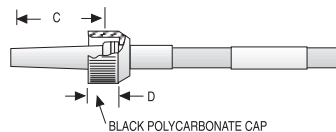
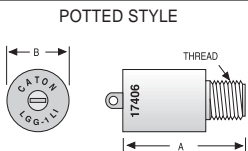
3.0) MECHANICAL

- 3.1) Connector Coupling: Threaded Screw-On
- 3.2) Connector Termination: Molded on to wire
- 3.3) Interfacial Seal: Tapered Conical Tower

4.0) MATERIALS

- 4.1) Plug Coupling Ring & Ferrule: Black Polycarbonate
- 4.2) Plug Connector: Resilient Silicone; Color, Red
- 4.3) Contacts & Sockets: Gold Plated Brass & Beryllium Copper
- 4.4) Receptacle Body: Green Thermoset Diallyl Phthalate
- 4.5) Wire:
 - 10 KVDC 18 AWG Silicone Insulation .160” dia.
 - 15 KVDC 18 AWG Silicone Insulation .160” dia.
 - 25 KVDC 18 AWG Silicone Insulation .230” dia.
 - 40 KVDC 16 AWG Silicone Insulation .290” dia.

INSERT ARRANGEMENT PIN to GROUND OPERATING VOLTAGES CURRENT CAPABILITY NUMBER OF CONDUCTORS	INTERFACE STYLE	POTTED STYLE	CABLE ASSEMBLY	WIRE
10 KVDC - 6.5 AMPS 1 CONDUCTOR	LGG 1/2 I	17106	17105-L6 48 inches [1219.2 mm]	18 AWG .160 Dia.
15 KVDC - 6.5 AMPS 1 CONDUCTOR	LGG 1/2 LI	17206	17205-L6 48 inches [1219.2 mm]	18 AWG .160 Dia.
25 KVDC - 6.5 AMPS 1 CONDUCTOR	LGG 1 LI	17406	17405-L6 48 inches [1219.2 mm]	18 AWG .230 Dia.
40 KVDC - 10 AMPS 1 CONDUCTOR	LGG 3 I	17606	17605-L6 48 inches [1219.2 mm]	16 AWG .290 Dia.



VOLTAGE	A	B	THREAD
10 KVDC	0.63 [16.0]	0.31 [7.9]	5/16-32 UNEF-2A
15 KVDC	1.00 [25.4]	0.50 [12.7]	5/16-32 UNEF-2A
25 KVDC	1.81 [46.0]	0.75 [19.0]	1/2-20 UNEF-2A
40 KVDC	1.94 [49.3]	0.75 [19.0]	3/4-16 UNEF-2A

VOLTAGE	C	D	THREAD
10 KVDC	0.54 [13.7]	0.38 [9.70]	0.16 [4.1]
15 KVDC	0.89 [22.6]	0.43 [10.9]	0.16 [4.1]
25 KVDC	1.69 [42.9]	0.53 [13.5]	0.23 [5.8]
40 KVDC	1.81 [46.0]	0.53 [13.5]	0.29 [7.4]

*Dimensions are in inches / millimeters
* LEADS ARE BLUNT CUT READY FOR CUSTOMER TERMINATION

For Custom Or Modified Assemblies, Please Consult Factory For Availability. For More Information On Corona, Please Consult Factory.



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Founding Member: High Voltage Association
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