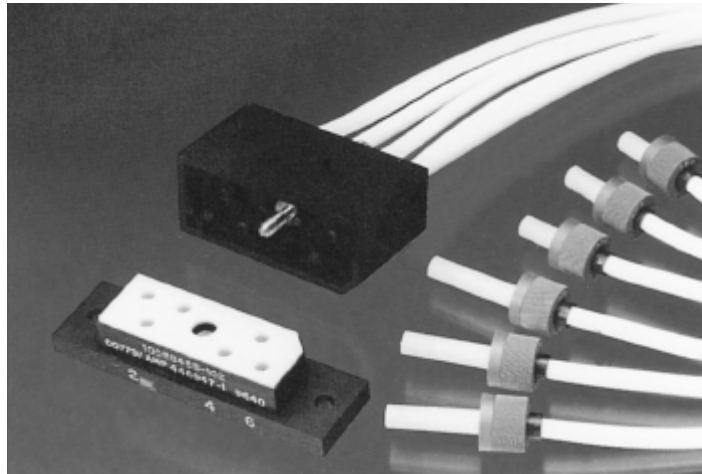


Various Specials

Product Facts

6 Position LGH Connector

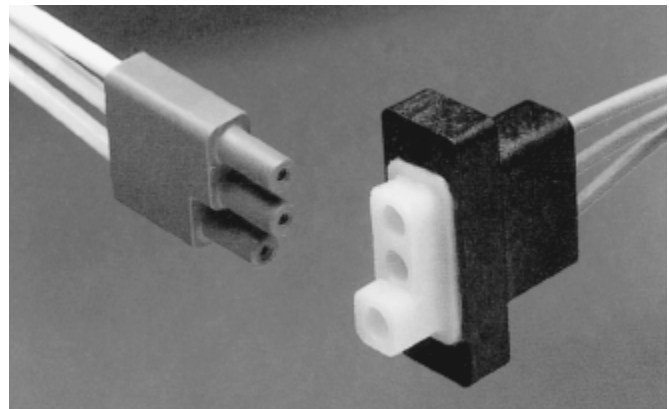
- Laser gyro inertial reference systems application
- Extremely rugged construction
- High flexibility silicone leads
- Size 22 contacts
- No adhesives or potting materials used
- 10,000 volts DC max. operating voltage



6 Position LGH Connector

3 Position LGH Compact Flange Mounted Connector

- Military counter measure systems application
- Missile guidance systems application
- Ultra small diameter silicone coated TEFLON wire insulation
- Size 22 contacts
- Plug is available as a kit or with flying leads
- 5,000 volts DC max. operating voltage



3 Position LGH Connector

6 Position LGH Connector brings high voltage to the circuit board

6 LGH leads, insert molded into a glass epoxy housing with a sturdy, center male screwlock form the plug of this extraordinary printed circuit connector system.

3 Position LGH Compact Flange Mounted Connector

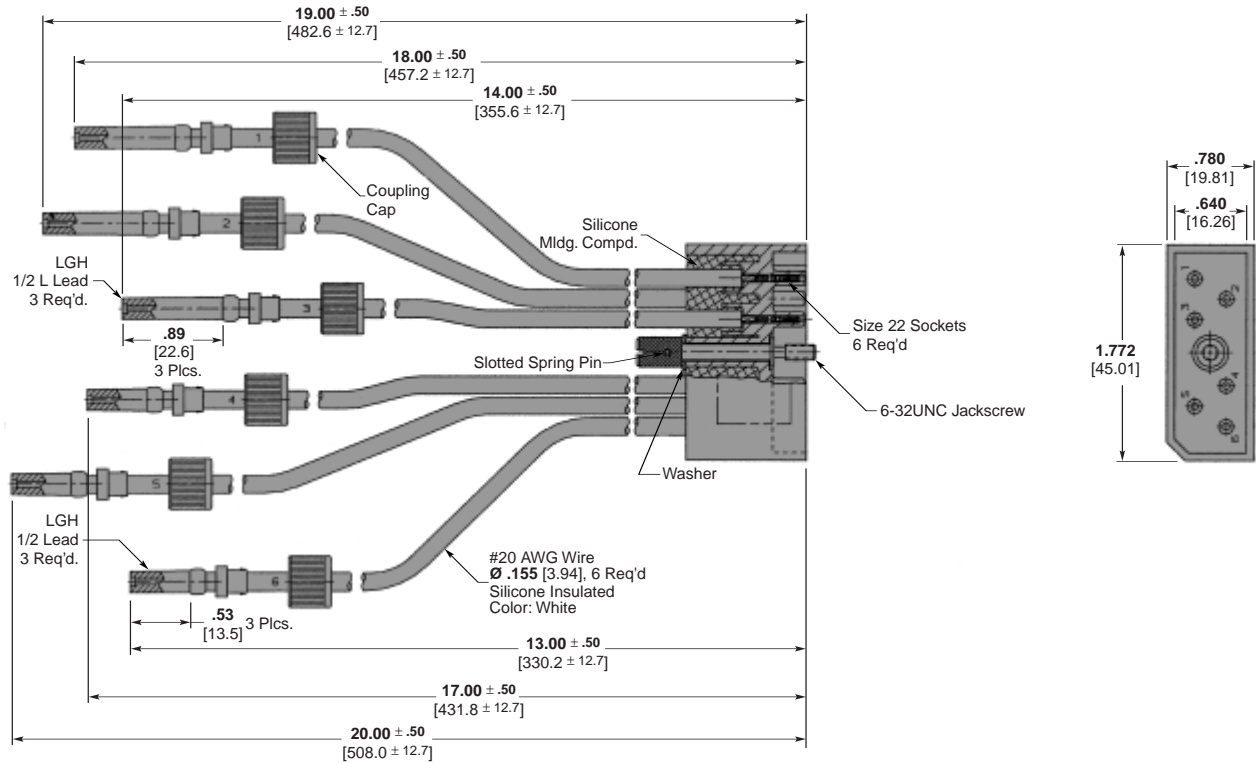
Three molded in flying leads in an extremely tough liquid crystal polymer flanged housing make up the receptacle of this compact high performance high voltage connector.

Performance Specifications

- Operating Temperature Range — -67°F to +257°F [-55°C to +125°C]
- Operating Altitude Range — Sea level to 70,000 ft [21336 m].
- Operating Current — 5 amps max. Polarized interface to assure correct mating

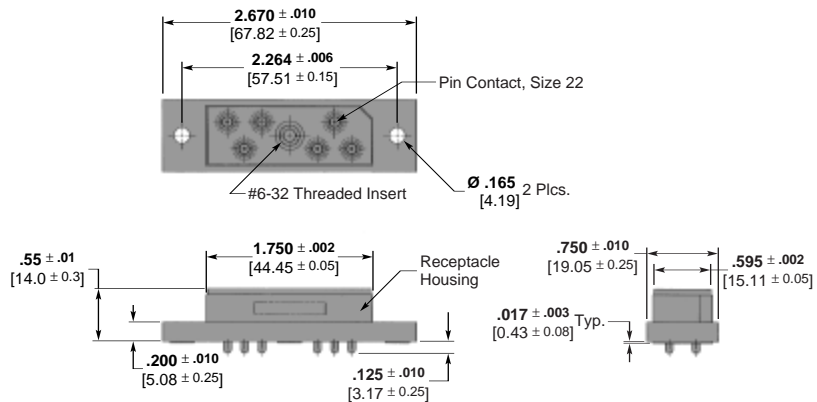
TEFLON is a trademark of E. I. DuPont de Nemours and Company.

6 Position, 10 KVDC Receptacle, with LGH 1/2 L and LGH 1/2 Positive Stop Leads



Part Number 446775-1

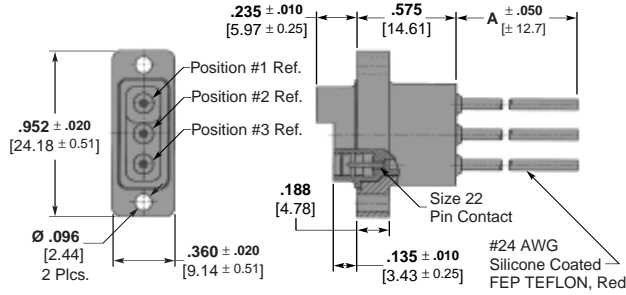
6 Position, Rectangular Receptacle



Part Number 446947-1

Various Specials (Continued)

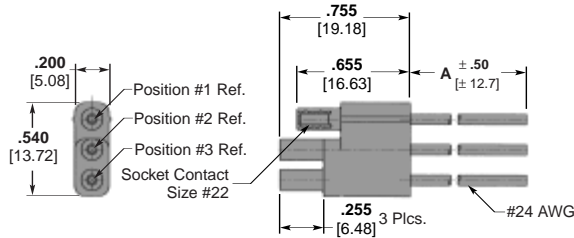
3 Position Receptacles



Dim. A	Part Number
24.00	443915-1
609.6	
18.50	443915-2
469.9	

Part Numbers 443915-1, -2

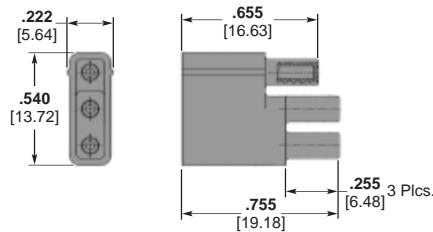
3 Position Plug



Dim. A	Part Number
24.00	443916-1
609.6	
48.00	443916-2
1219.2	

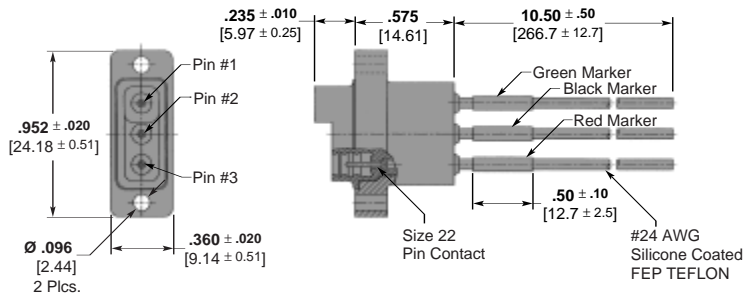
Part Numbers 443916-1, -2

3 Position Plug Kit with 3 Size 22 Socket Contacts



Part Numbers 446900-1 and 446900-2 with Slot

3 Position Receptacle



Part Number 443815-1

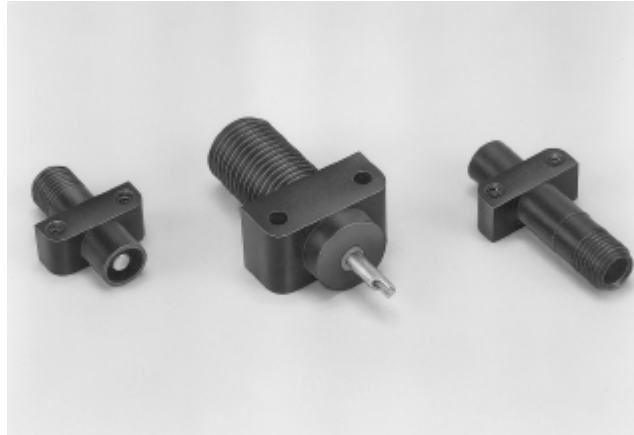
TEFLON is a trademark of E. I. DuPont de Nemours and Company.

Various Specials (Continued)

Printed Circuit Board
Receptacles

Product Facts

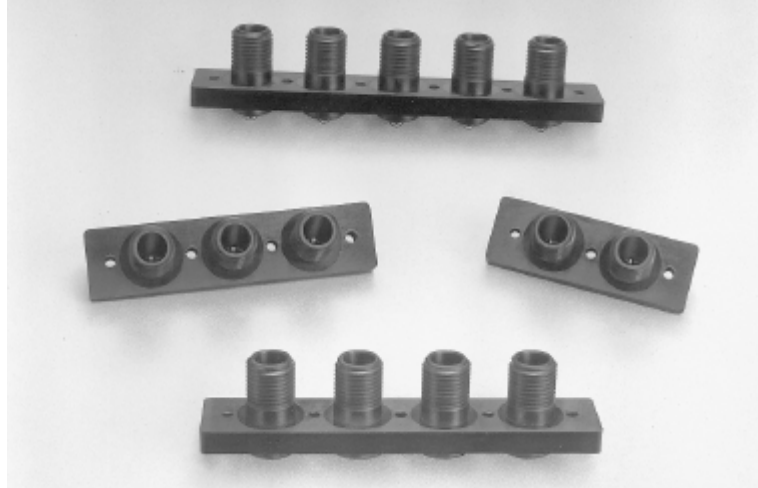
- Molded epoxy housings per MIL-M-24357 (GEI-5)
- Small, lightweight, leakproof
- 10 KV, LGH 1/2
Part Number 866803-1 (with mounting holes)
Part Number 866804-1 (with threaded mounting holes and potting shell)
- 15 KV, LGH 1/2L
Part Number 866806-1 (with mounting holes)
Part Number 866805-1 (with threaded mounting holes and potting shell)
- 20 KV, LGH 1
Part Number 830632-3 (with mounting holes)

Multiple Receptacle with
Integral, Molded Flange for
Bulkhead Applications
(Gold Pins)

Single, Part Number 867606-4

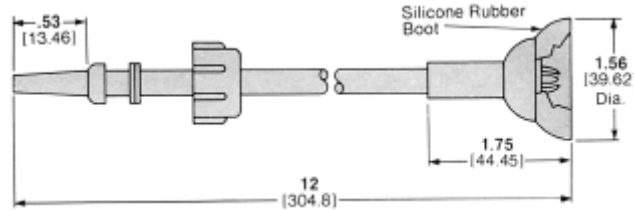
Dual, Part Number 861662-4

Triple, Part Number 861660-4

Quadruple,
Part Number 861658-4Quintuple,
Part Number 861657-4

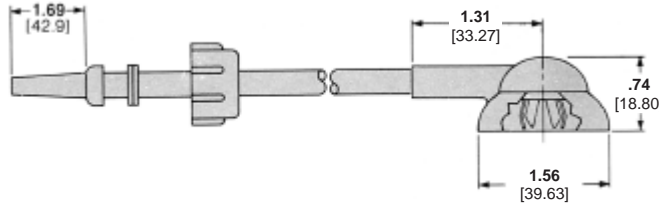
Various Specials (Continued)

CRT Lead Assemblies
J1-21, 10 KV, LGH 1/2



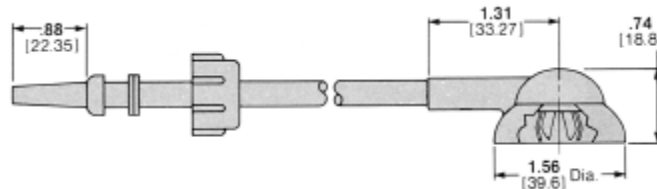
Part Number 848816-2

J1-21, 25 KV, LGH 1L



Assembly Length	Part Number
12 304.8	846977-8
18 457.2	1-846977-1

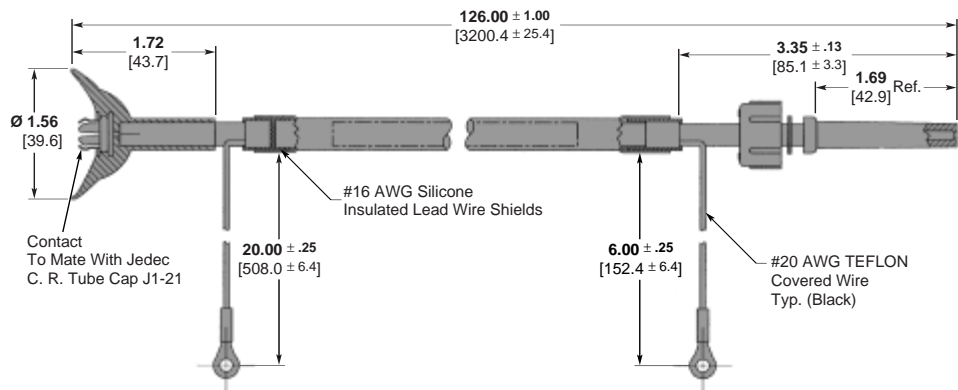
J1-21, 20 KV, LGH 1



Part Number 848588

Assembly Length	Part Number
6 152.4	848588-7
12 304.8	848588-1
18 457.2	848588-4
24 609.6	848588-2
36 914.4	848588-3
48 1219.2	848588-8

J1-21, CRT, LGH 1L



Part Number 867615-2

Note: Standard length leads are tabulated here. Tyco Electronics can make available numerous variations in lengths and material to suit almost any application. Choices of insulation materials include TEFLON, UL listed silicone and UL listed PVC. Other materials, colors, wire and configurations can be used in manufacture. For more information, consult Tyco Electronics.

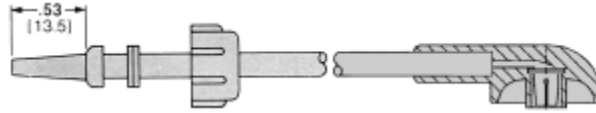
TEFLON is a trademark of E. I. DuPont de Nemours and Company.

Various Specials (Continued)

CRT Lead Assemblies

(Continued)

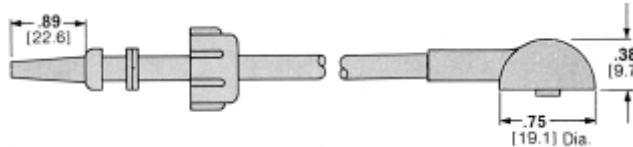
J1-22, 10 KV, LGH 1/2 Right-Angle



Part Number 846556

Assembly Length	Part Number
12 304.8	846556-3
18 457.2	846556-5
24 609.6	846556-4

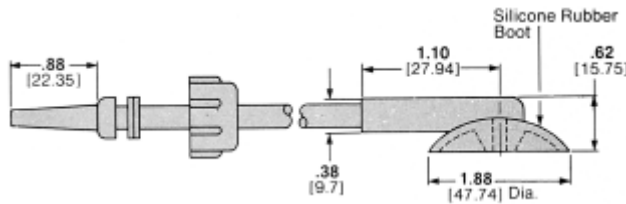
J1-22, 15 KV, LGH 1/2L



Part Number 862345

Assembly Length	Part Number
12 304.8	862345-2
18 457.2	862345-1

J1-22, 20 KV, LGH 1

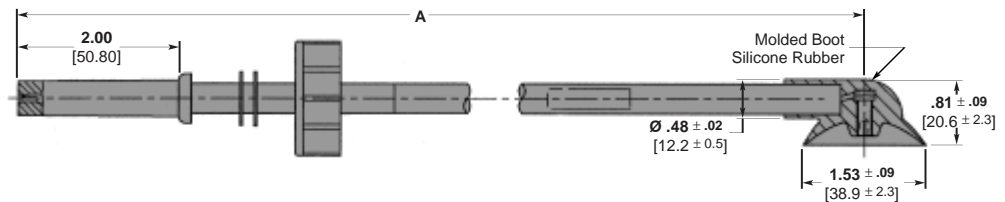


Part Number 849424

Assembly Length	Part Number
12 304.8	849424-7
18 457.2	849424-4 5-849424-4*

*RoHS compliant Part Number.

J1-22, 50 KV, LGH 4



Part Numbers 868373-1, -2

Assembly Length	Part Number
36.0 ± .36 914.4 ± 9.1	868373-1
24.0 ± .36 609.6 ± 9.1	868373-2

Note: Standard length leads are tabulated here. Tyco Electronics can make available numerous variations in lengths and material to suit almost any application. Choices of insulation materials include TEFLON, UL listed silicone and UL listed PVC. Other materials, colors, wire and configurations can be used in manufacture. For more information, consult Tyco Electronics.

TEFLON is a trademark of E. I. DuPont de Nemours and Company.

Various Specials (Continued)

CRT-Base Connectors

Product Facts

- Base connections without potting
- Right-angle and straight connections available
- One-piece molded construction
- Environmentally sealed for trouble-free performance
- Operates at rated DC voltages at 70,000 ft. [21,336 m]
- Operating temperature range: -67°F to +257°F [-55°C to +125°C]
- Withstands shock tests per MIL-STD-202, Test Method 102, Condition C
- Excellent system serviceability
- High reliability
- Fully tested harnesses
- Lower applied cost



AMP molded silicone rubber CRT-base connectors are designed to better eliminate the hand wiring approach for CRT-base connections. These connectors offer greater system serviceability and feature highly reliable performance with complete versatility. They have integrally molded high and low voltage leads, as dictated

by particular applications, and a molded boot design which promotes dust and moisture resistance over a long operational life span.

The versatility of the connector design allows customers to purchase either fully wired connectors, or connectors which can be terminated and potted at

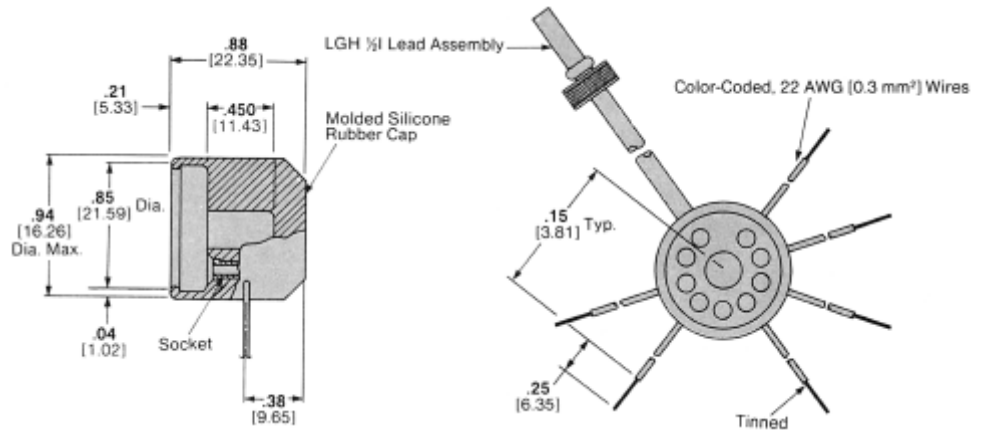
their plant. Currently, LGH molded silicone rubber CRT-base connectors are available for a variety of standard 9, 12 and 14 pin tubes. Options include a choice of wire, both low and high voltage, as well as the direction of wire exiting from the connector. Each harness is fully tested prior to shipment.

In addition to the connectors listed here, Tyco Electronics can furnish a wide variety of CRT-base connectors. Consult Tyco Electronics for details.

CRT-Base Connectors

(Continued)

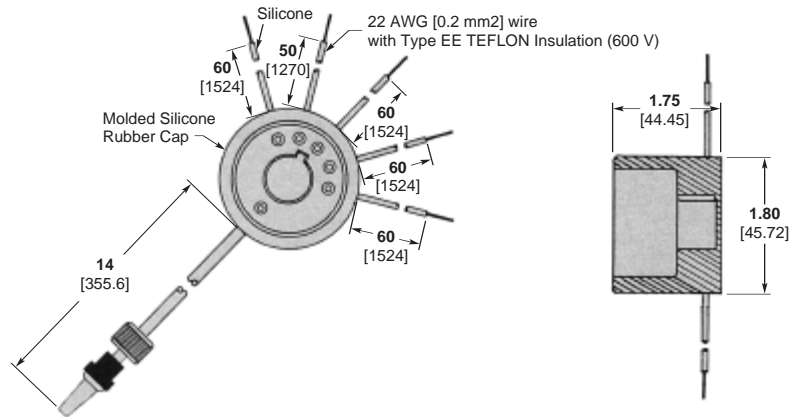
9 Position CRT-Base Connector



Part Number 862481-1

This connector is one of many available from Tyco Electronics for mating with standard JEDEC tube base E9-37.

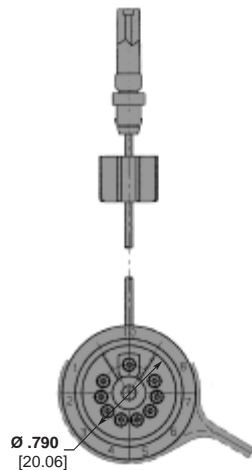
Typical Right-Angle Lead Exit CRT-Base Connector



B6-63 — Part Number 867121-1

This connector is typical of those available from Tyco Electronics for mating with standard JEDEC tube base B5-57, B6-63, B7-51, B10-75, and B12-43.

11 Position CRT-Base Connector



Part Number 443118-2

This connector is one of several available from Tyco Electronics for mating with standard JEDEC tube base B9-290. In addition to the connectors listed here, Tyco Electronics can furnish a wide variety of CRT-base connectors. Consult Tyco Electronics for details.

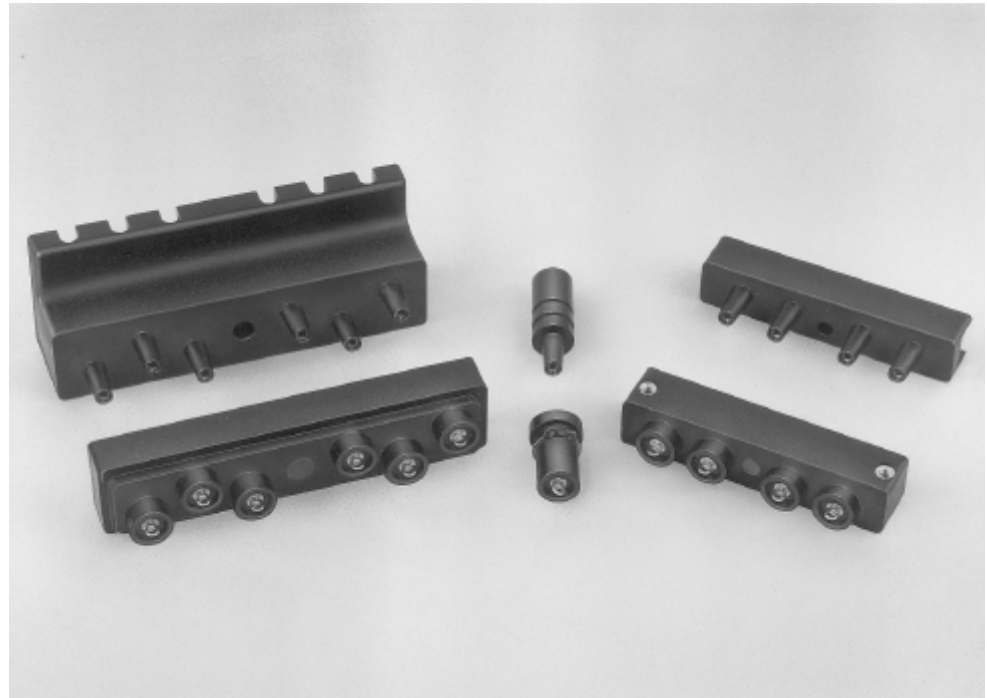
TEFLON is a trademark of E. I. DuPont de Nemours and Company.

Various Specials (Continued)

Rack and Panel Connectors

Product Facts

- 10 KVDC rating up to 10,000 feet [3,048 m] (continuous)
- Extremely compact
- All plastic design
- Housings can be molded from a variety of materials
- Provides highly reliable drawer-type connections
- Low insertion and extraction forces
- Hipot — 20 KVDC at sea level, two minutes
- Pins and sockets (10-amp rating) are recessed for maximum safety; will accept conductor sizes to 16 AWG [1.25 mm²]
- Hermetically sealed version available for soldering to metal bulkhead on single pin connector
- Available with or without leads
- No tools required for field use
- Can be readily adapted for in-line splice applications



This AMP High Voltage Connector family is specifically designed for military applications. It is extremely compact and has a continuous 15 KVDC rating from sea level to an altitude of up to 10,000 feet [3,048 m].

The connector assembly is a rack and panel type especially suited for drawer mounting or free-hanging plug applications. It incorporates many design features for electrical, mechanical and environmental integrity. Such features include: use of a tapered plug to make exact alignment unnecessary; recessed pin and socket contacts to better prevent high voltage exposure; and a resilient silicone rubber

"O" ring in the receptacle for an interfacial seal for the mated connector.

Plug and receptacle housings are molded from durable glass epoxy; pin and socket contacts are made of fine grade brass, gold plated in the mating areas for maximum conductivity. The solder eyelets are capable of accommodating leads with conductor sizes up to 16 AWG [1.25 mm²].

To meet customer's exact requirements, we can supply the High Voltage Rack and Panel Connectors with or without leads. Also, because of the basic design of the connectors, slight modifications can be made for in-line space applications.

Materials

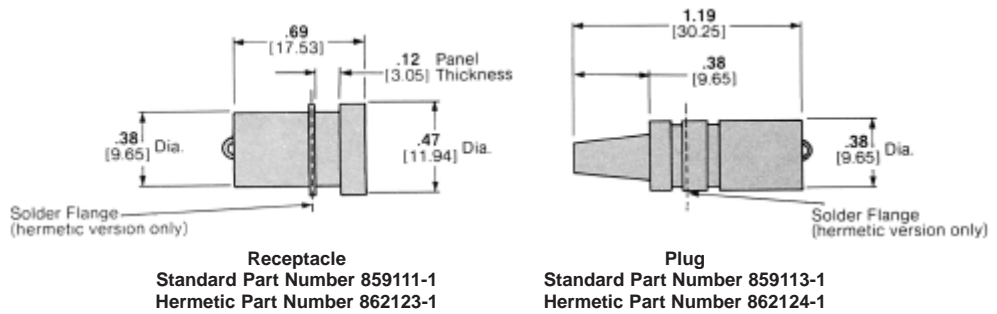
- Housings** — Molded glass epoxy per MIL-M-24325 (Ships), GEI-5
- Pin and Socket Contacts** — Brass; gold plated per MIL-G-45204
- Solder Eyelets** — Pre-tinned per MIL-T-10727
- "O" Ring (Receptacle Only)** — Silicone Rubber
- Retaining Ring (Receptacle Only)** — Stainless steel per MS 16624

Various Specials (Continued)

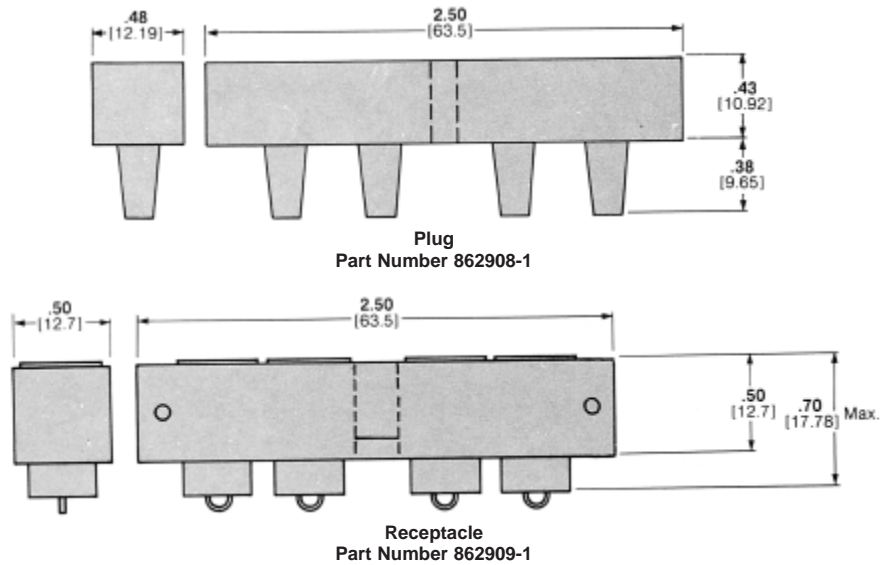
Rack and Panel Connectors

(Continued)

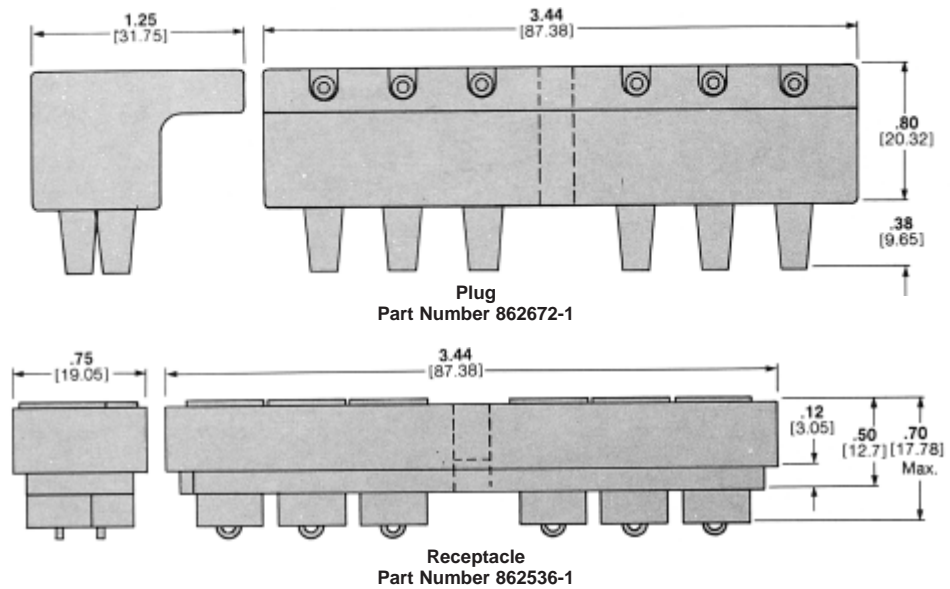
Single Pin



Four Pin



Six Pin



- Notes:** 1. If bulkhead and mounting hardware are metallic and at ground potential, provisions must be made to protect the back end of the receptacle against arc-over and breakdown.
2. Connectors are available with or without leads. Leads can be furnished in virtually any length, with various insulation materials, in either standard white or a variety of optional colors, and with conductor sizes to 16 AWG [1.25 mm²].
For the High Voltage Rack and Panel Connector to meet your specific requirements, consult Tyco Electronics.

Various Specials (Continued)

Heavy Duty (VRL)
RFI-Shielded Lead
Assemblies and
Receptacles

Product Facts

- Extremely rugged design
- Fully shielded against RFI
- Operating and storage temperature range: -67°F to +257°F [-55°C to +125°C]
- Meets wide range of military requirements
- Metal housings can be readily altered to meet a wide variety of mounting and operational requirements



Versatile ruggedized LGH High Voltage Lead Assemblies and Receptacles are designed specifically for use where vibration, shock and handling conditions exist and are ideally suited for both industrial and military applications. This line of lead assemblies and receptacles carries the same voltage, current and altitude

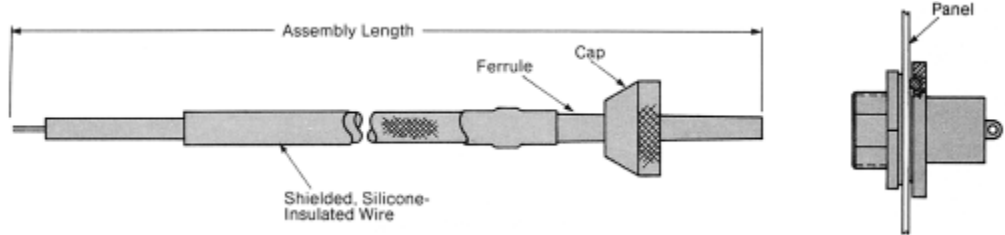
ratings as the corresponding standard LGH connector series when properly mated.

VRL cable assemblies feature the integrally molded end to provide positive mating and an excellent seal. They are completely shielded for RFI when mated with the appropriate receptacle.

The receptacles are of the molded glass epoxy type

with a protective metal shroud that is hermetically sealed between plastic and metal. These receptacles mate with the single-end ruggedized lead assemblies shown in the same series.

Special designs also are available upon request if the standard VRL lead assembly and receptacle designs will not fulfill your immediate needs.

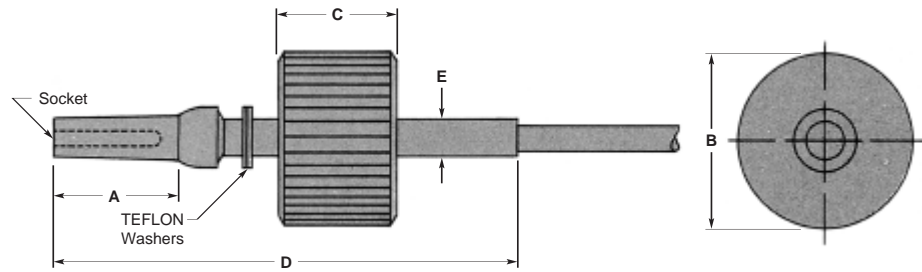


LGH Connector Series	Lead Assemblies			Receptacles		
	Length	Single End	Double End	Jam Nut	Square Flange	Dimensions
1/2 L 15 KVDC	6 152.4	862485-8	—	862295-1	862363-1	1/2-28 UNEF Thread .60 [15.24] Behind Panel .98 [24.89] Overall Length
	12 304.6	862485-3	862294-4			
	18 457.2	—	862294-3			
	36 914.4	—	1-862294-0			
1 L 25 KVDC	12 304.6	862484-7	862444-3	862443-1 5-862443-1*	862362-1	5/8-18 UNEF Thread 1.10 [27.94] Behind Panel 1.84 [46.74] Overall Length
	24 609.6	862484-4	—			
	36 914.4	862484-8	—			
4 50 KVDC	12 304.6	863124-1	863254-1	863125-1	863253-1	1-3/16-18 UNEF Thread 1.55 [39.37] Behind Panel 2.15 [54.61] Overall Length
	24 609.6	863124-2	863254-3			
	36 914.4	863124-3	—			
	48 1219.2	—	863254-4 5-863254-4*			

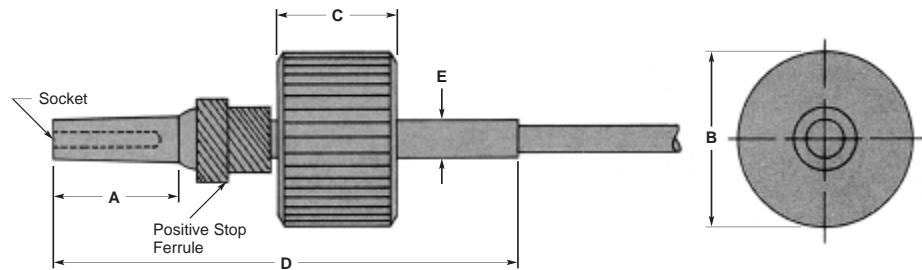
*RoHS compliant Part Number.

Various Specials (Continued)

Field Installable Connectors
Kits for TEFLON Insulated Wire



Standard Molded End



Positive Stop Molded End

Connector Description	Dimensions					Wire Diameter	Part Numbers	
	A	B	C	D	E		Molded End	Positive Stop
LGH 1/2 I	.53 13.5	.49 12.5	.38 9.7	2.00 50.8	.160 40.6	.107-.113 2.72-3.37	861076-1	—
						.081-.087 2.06-2.21	861076-2	—
LGH 1/2 LI	.89 22.6	.49 12.5	.38 9.7	2.00 50.8	.160 40.6	.107-.113 2.72-3.37	—	862514-1
						.107-.113 2.72-3.37	—	862515-1
LGH 1 I	.88 22.4	.81 20.57	.50 12.7	3.00 76.2	.280 71.1	.155-.165 3.94-4.19	—	862128-1
						.200-.210 5.08-5.33	—	862128-2
						.122-.132 3.10-3.35	—	862128-3
LGH 1 LI	1.69 42.9	.81 20.57	.50 12.7	3.38 85.9	.280 71.1	.155-.165 3.94-4.19	—	862518-1

TEFLON is a trademark of E. I. DuPont de Nemours and Company.

Note: These connectors mate with standard LGH receptacles. Recommended cable is W.L. Gore High Voltage Wire or equivalent.