Introduction (Continued)

Lead Assemblies and Receptacles

LGH leads and receptacles find wide application where high voltage is used in harsh environments. LGH leads and receptacles are lightweight, miniature, extremely reliable and they maintain peak performance under high temperature, high altitude applications. They are equally applicable to low temperature, low altitude devices.

Leads and receptacles shown on the following pages are commonly used items. Hundreds of variations of these products are available, as well as custom-made units. Consult TE Connectivity for information on high voltage connectors for applications not satisfied by components listed here.

When ordering LGH items: identify item, list TE part number, and specify quantity. Note: Special packaging, special marking and/or special testing of LGH leads and receptacles are available on request, as well as custom-made assemblies. Consult TE for details.

Voltage Ratings

The voltage ratings tabulated here and noted elsewhere apply to LGH molded-end lead assemblies properly mated with appropriate LGH receptacles, which are properly potted or otherwise protected on the back end.

LGH Series	Mating Length/Depth	Normal Capacitance		Wire Size	Operating Voltage* Kilovolts DC	3 Min. Hipot** Kilovolts DC
		pF/ft.	pF/m			
LGH ¼	**.25** [6.35]	***	—	22 AWG	5	7.5
LGH ½	**.53** [13.46]	55	180	16 AWG	10	15
LGH ½ L	**.89** [22.61]	55	180	16 AWG	15	23
LGH 1	**.88** [22.35]	35	115	16 AWG	20	30
LGH 1L	**1.69** [42.93]	35	115	16 AWG	25	38
LGH 2	**1.44** [36.58]	28	144	16 AWG	30	45
LGH 3	**1.81** [45.97]	35	115	16 AWG	40	55
LGH 4	**2.00** [50.80]	28	144	16 AWG	50	60

*Sea level to 70,000 ft. [21,336 m], -55°C to +125°C [-67°F to +257°F].
**Sea level at 25°C (77°F).
***LGH ¼ is not shielded

LGH Lead Assemblies are manufactured with a silicone rubber end having a specified mating length (see above table) molded onto a 16 AWG white silicone rubber wire. These assemblies provide extreme reliability and safety for high voltage applications in severe environments.

Specifications

Lead Length Tolerance (including pigtail) — Lengths to 24 [609.6], ±.125 [3.28]: 24 [609.6] and longer, ±1% of length.

Lead Insulation — Silicone rubber, durometer reading 60 to 70 (reference MIL-W-16878/8, Type FF); color, white. Lead assemblies with other colors and insulation materials such as PVC and PTFE can be manufactured on request.

Conductors (per MIL-W-16878/8) — LGH ½, LGH ½ L, LGH 1, LGH 1L and LGH 3 lead assemblies contain 41 strands minimum of 32 AWG [0.03 mm²] wire, silver plated, to compose a 16 AWG [1.25 mm²] stranded conductor .06 nominal O.D. [1.5]; LGH 2 and LGH 4 lead assemblies contain 19 strands minimum of 29 AWG [0.07 mm²] wire, silver plated, to compose a 16 AWG [1.25 mm²] stranded conductor .06 nominal O.D. [1.5]. Silver plating is per ASTM-B298-58T.

Pigtail — Solder dipped

Socket — Bronze per ASTM-140, alloy B, gold plated per MIL-G-45204, Type II, (0.000030 [0.00076] gold over 0.000030 [0.00076] nickel per QQ-N-290). Socket is crimped to lead wire.

Cap Materials — Polycarbonate glass-filled polyester or glass-filled epoxy.

Molded End — Silicone rubber per ZZ-R-765, Class IIa and IIb, grade 60.

Positive Stop Ferrule — Glass-filled polyester

Marking — Per MIL-STD-130

Washer — TFE, electrical grade

Minimum Bend Radii, nominal, for cables without additional covering over silicone insulation and for shielded cable.

LGH Series	Insulation Type	
	Standard	Shielded
¼, ½, ½ L	**.25** 6.4	**.75** 19.0
1, 1L, 3	**.50** 12.7	**1.00** 25.4
2, 4	**1.00** 25.4	**1.50** 38.1

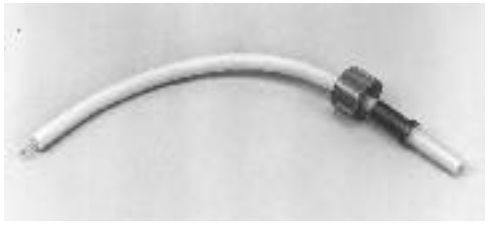
Maximum Conductor Resistance

All Series	4.75 ohms/1000 ft. 15.6 ohms/1000m.

LGH ¼ — 22 AWG (19/34)



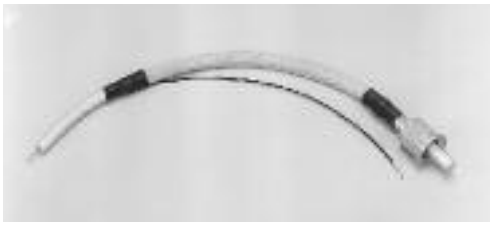
Single End Lead Assembly



Single End Lead Assembly with Positive Stop Ferrule



Shielded Lead Assembly



RFI Shielded Lead Assembly

Catalog 1308940
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Introduction (Continued)

LGH Receptacles are manufactured in molded glass epoxy having a specified mating depth (see table on previous page). When used with LGH lead assemblies they offer the ultimate in dependability, even under harsh environmental conditions. Typical receptacles are shown here. Specific units, with part numbers, are shown by series in the following pages.

LGH Receptacles for Canned Units

These receptacles are for hermetically sealed, gas- or oil-filled units, and they are recommended for canned units filled with potting compound.**

**CAUTION: Follow manufacturer's instructions on preparing and handling potting. LGH voltage ratings apply only when a proper bond is achieved between the back end of the receptacle and the compound.

LGH Receptacles for Cast or Encapsulated Units

These units are for use where no metal can is required.

Specifications (All units)

Pin Assembly — Brass per ASTM-B-16 and QQ-B-626; tin plated per MIL-T-10727, Type I or II, .00010" min. thickness.*

Body — Molded glass-filled epoxy

Marking — Per MIL-STD-130

(Canned units only)

Solder Flange — Brass per ASTM-B-16 and QQ-B-626; tin plated per MIL-T-10727, Type I or II, .00010" min. thickness

Hermeticity — Leak rate less than 1 x 10^{-8} cc He/sec. per MIL-STD-202, Method 112B, Cond. C.

*Hermetically sealed receptacles are plated after molding therefore we cannot guarantee the minimum thickness of copper under plating .000100 [0.00254] on the mating end of the pin contact.



Glass-epoxy receptacle for encapsulated units



Glass-epoxy receptacle for splice application



Hermetically sealed, glass-epoxy receptacle for canned units



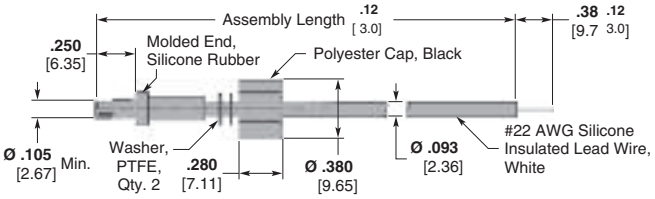
Glass-epoxy, flanged receptacle for bulkhead splice applications



Glass-epoxy, flanged receptacle for bulkhead applications

LGH Lead Assemblies and Receptacles, 5 KVDC, LGH ¼

Single End Lead Assemblies

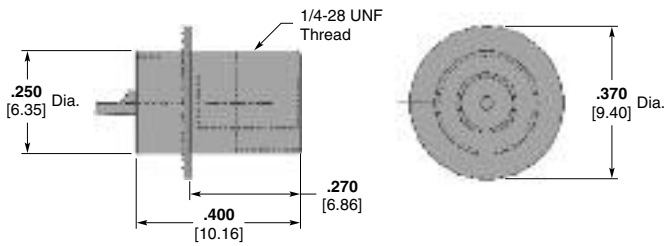


Part Number 445162

Assembly Length	Part Number
6.0 152.4	445162-1
12.0 304.8	445162-2 5-445162-2*
18.0 457.2	445162-3
24.0 609.6	445162-4

*RoHS compliant Part Number.

Receptacle, Metal Flange



Part Number 445159-1 and Part Number 5-445159-1 (RoHS)

Catalog 1308940
Revised 9-14

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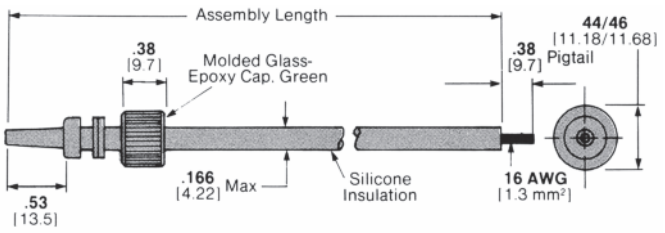
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LGH Lead Assemblies and Receptacles, 10 KVDC, LGH ½

Single End Lead Assemblies

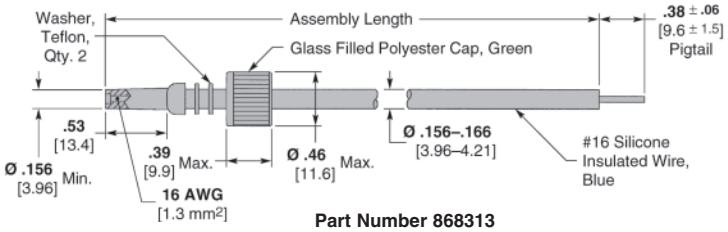


Part Number 830611

Assembly Length	Part Number
6.0 152.4	2-830611-1 2-5830611-1*
12.0 304.8	4-830611-8 4-5830611-8*
18.0 457.2	2-830611-5 2-5830611-5*
24.0 609.6	830611-1 5830611-1*
36.0 914.4	1-830611-0 1-5830611-0*
48.0 1219.2	2-830611-3 2-5830611-3*

*RoHS compliant Part Number.

Single Molded End Lead Assemblies

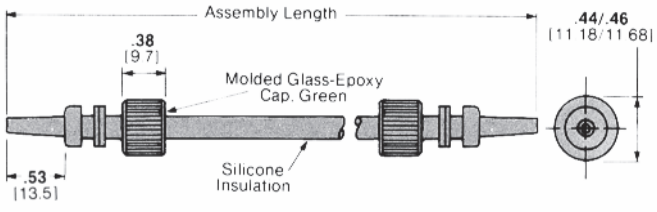


Part Number 868313

Assembly Length	Part Number
24.0 609.6	868313-3 5-868313-3*

*RoHS compliant Part Number.

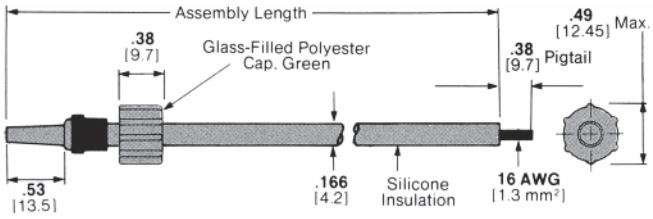
Double End Lead Assemblies



Part Number 830612

Assembly Length	Part Number
6.0 152.4	830612-3
12.0 304.8	830612-2
18.0 457.2	830612-8
24.0 609.6	830612-1
36.0 914.4	2-830612-6
48.0 1219.2	830612-4

Single End Lead Assemblies with Positive Stop Ferrules

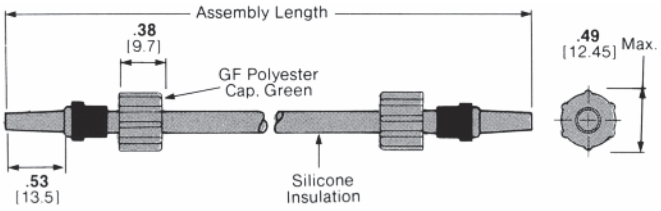


Part Number 862545

Assembly Length	Part Number
6.0 152.4	862545-1 5-862545-1*
12.0 304.8	862545-4 5-862545-4*
18.0 457.2	862545-6 5-862545-6*
24.0 609.6	862545-8 5-862545-8*
36.0 914.4	1-862545-8 6-862545-8*
48.0 1219.2	1-862545-1

*RoHS compliant Part Number.

Double End Lead Assemblies with Positive Stop Ferrules



Part Number 862546

Assembly Length	Part Number
6.0 152.4	862546-1
12.0 304.8	862546-4
18.0 457.2	862546-6
24.0 609.6	862546-8
36.0 914.4	1-862546-0
48.0 1219.2	1-862546-5

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

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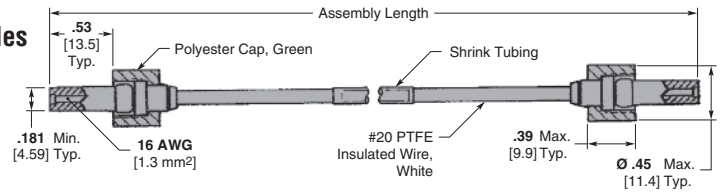
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LGH Lead Assemblies and Receptacles, 10 KVDC, LGH ½ (Continued)

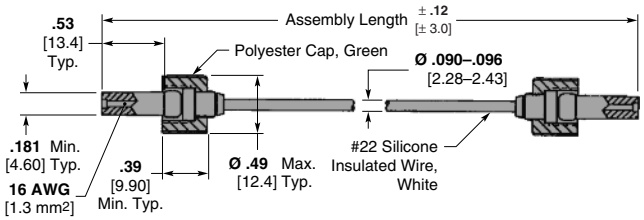
Double End Lead Assemblies with Positive Stop Ferrules with PTFE Wire



Part Number 860529

Assembly Length	Part Number
6.0 152.4	860529-2
7.0 177.8	860529-6
10.0 254.0	860529-8
13.0 330.2	1-860529-0
16.0 406.4	860529-4

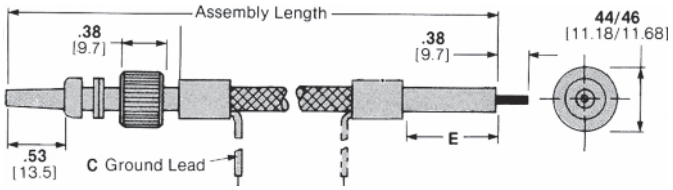
Double End Lead Assemblies with Positive Stop Ferrules with #22 Wire



Part Number 449578

Assembly Length	Part Number
11.0 ± .12 279.4 ± 3.0	449578-1

Shielded Single End Lead Assemblies with Ground Lead

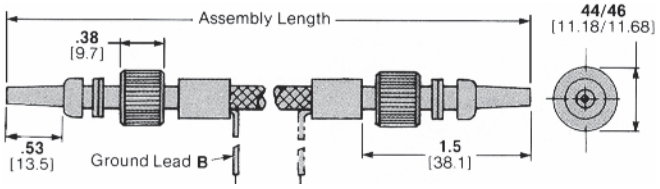


Part Number 846985

Assembly Length	Dims. C	Dims. E	Part Number
12.0 304.8	**6.0** 152.4	**2.0** 50.8	846985-9 5-846985-9*
18.0 457.2	**6.0** 152.4	**1.5** 38.1	2-846985-2
24.0 609.6	**6.0** 152.4	**1.5** 38.1	2-846985-3
36.0 914.4	**12.0** 304.8	**2.0** 50.8	1-846985-8

*RoHS compliant Part Number.

Shielded Double End Lead Assemblies with Ground Lead



Part Number 858885

Assembly Length	Dim. B	Part Number
12.0 304.8	**8.0** 203.2	858885-3
18.0 457.2	**6.0** 152.4	2-858885-7
24.0 609.6	**8.0** 203.2	858885-4
36.0 914.4	**6.0** 152.4	2-858885-5 7-858885-5*
48.0 1219.2	**6.0** 152.4	858885-6

*RoHS compliant Part Number.

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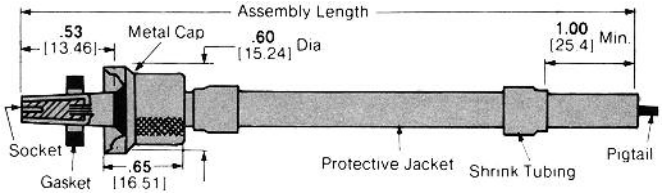
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LGH Lead Assemblies and Receptacles, 10 KVDC, LGH ½ (Continued)

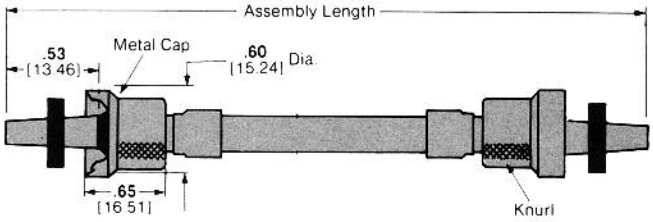
RFI Shielded Single End Lead Assemblies*



Part Number 861807

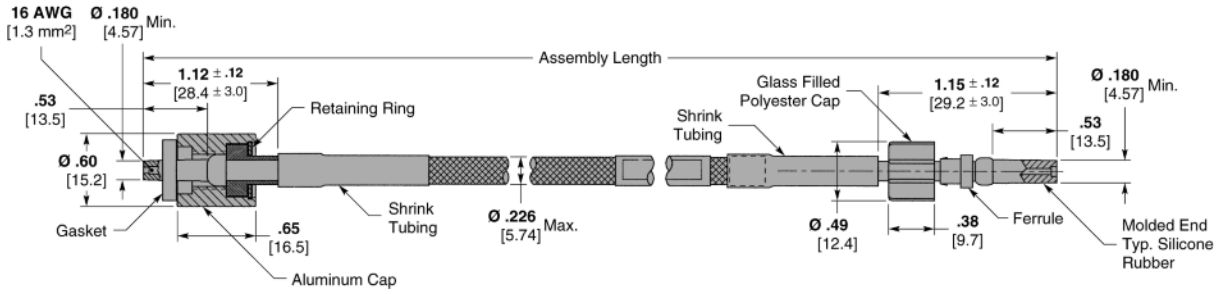
Assembly Length	Part Number
12.0 304.8	861807-1
18.0 457.2	861807-2
24.0 609.6	861807-7
36.0 914.4	861807-9

RFI Shielded Double End Lead Assemblies*



Part Number 861808

Assembly Length	Part Number
12.0 304.8	861808-1
18.0 457.2	861808-9
24.0 609.6	1-861808-0
36.0 914.4	1-861808-2
48.0 1219.2	1-861808-6



Part Number 863330-1

Assembly Length	Part Number
18.0 457.2	863330-1

* These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861252-1.

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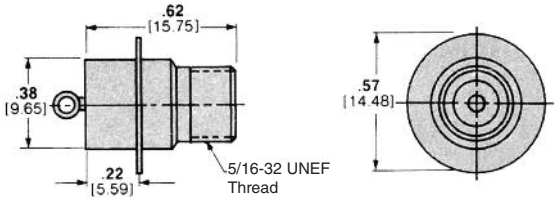
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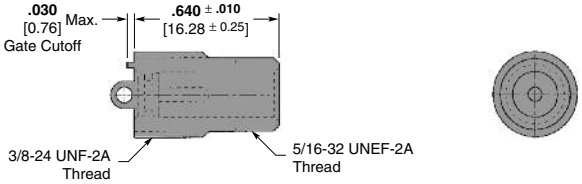
LGH Lead Assemblies and Receptacles, 10 KVDC, LGH ½ (Continued)

Glass-Epoxy Receptacles with .53 [13.46] Barrel Depth

Flanged, for Hermetic Seal
Part Number 861252-1
RoHS Part Number 5-861252-1
Weight — 2 grams

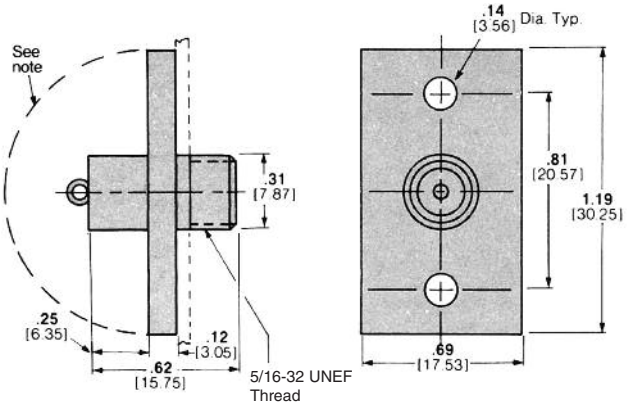


Special Receptacle
Part Number 448462-1

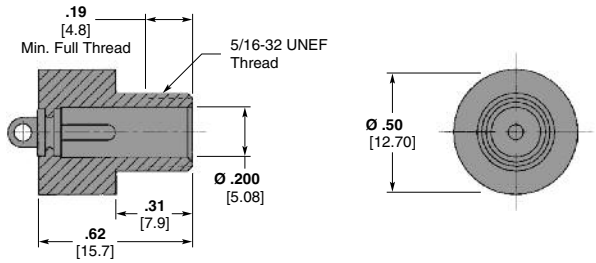


Note: Receptacle will accept a LGH ½ lead with a .53 [13.5] molded end length.

Flanged, Bolt Mount
Part Number 830395-1
RoHS Part Number 5-830395-1
Weight — 4.2 grams

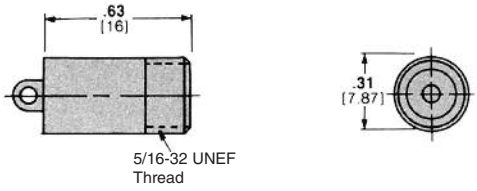


Receptacle
Part Number 830200-1
RoHS Part Number 5-830200-1



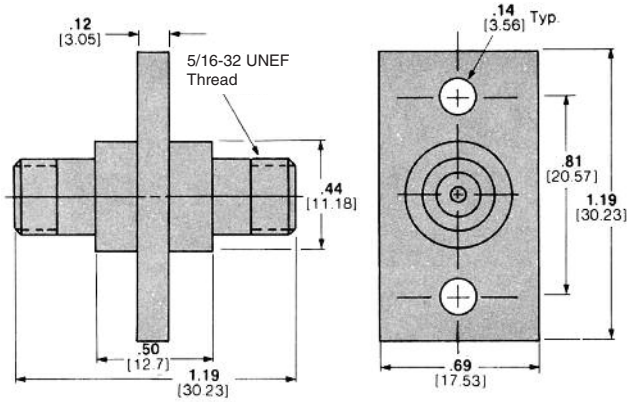
Note: Receptacle to mate with LGH ½ Lead Assembly.

For Encapsulated Units
Part Number 830178-1
RoHS Part Number 5-830178-1
Weight — 1.2 grams

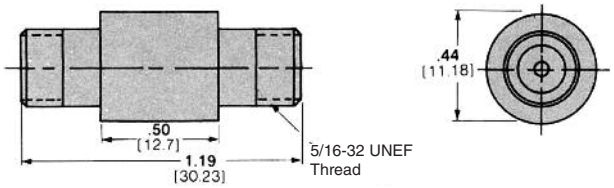


Receptacles are available with gold plated contacts.

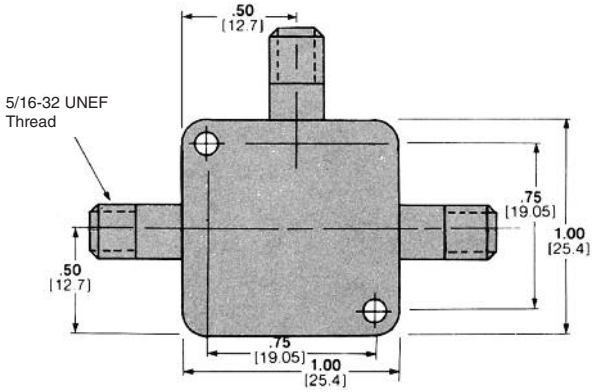
Bolt-mount, Feed-through
Part Number 830174-1
Weight — 5.8 grams



Splice
Part Number 830177-1
Weight — 3.5 grams



T Connector
Part Number 849418-1
Weight — 15 grams



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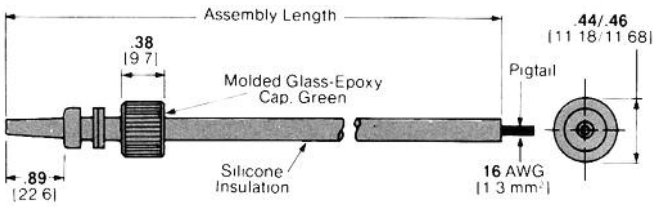
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LGH Lead Assemblies and Receptacles, 15 KVDC, LGH ½ L

Single End Lead Assemblies

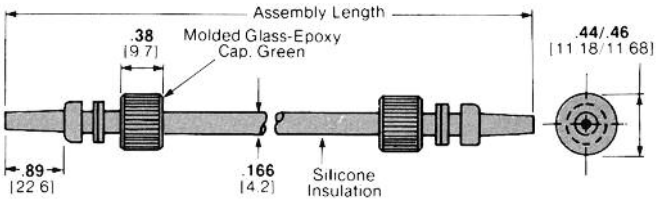


Part Number 830613

Assembly Length	Part Number
6.0 152.4	1-830613-0
12.0 304.8	830613-2 5830613-2*
18.0 457.2	1-830613-2 1-5830613-2*
24.0 609.6	830613-1 5830613-1*
36.0 914.4	830613-7 5830613-7*
48.0 1219.2	1-830613-4 1-5830613-4*

RoHS compliant Part Number.

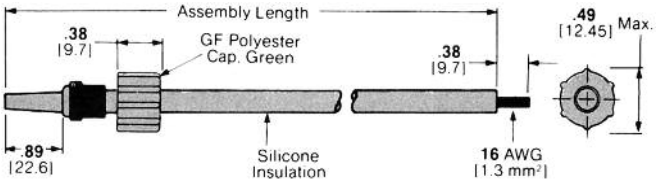
Double End Lead Assemblies



Part Number 830614

Assembly Length	Part Number
6.0 152.4	1-830614-5
12.0 304.8	830614-2
18.0 457.2	830614-3
24.0 609.6	830614-1
36.0 914.4	1-830614-6
48.0 1219.2	2-830614-5

Single End Lead Assemblies with Positive Stop Ferrules

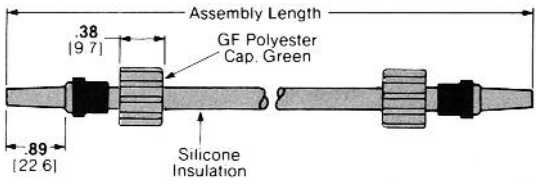


Part Number 862547

Assembly Length	Part Number
6.0 152.4	862547-1
12.0 304.8	862547-4 5-862547-4*
18.0 457.2	862547-6 5-862547-6*
24.0 609.6	862547-8
36.0 914.4	862547-9
48.0 1219.2	1-862547-9 6-862547-9*

RoHS compliant Part Number.

Double End Lead Assemblies with Positive Stop Ferrules



Part Number 862548

Assembly Length	Part Number
6.0 152.4	862548-1
12.0 304.8	862548-4
18.0 457.2	862548-6
24.0 609.6	862548-8
36.0 914.4	1-862548-6
48.0 1219.2	1-862548-4

Catalog 1308940
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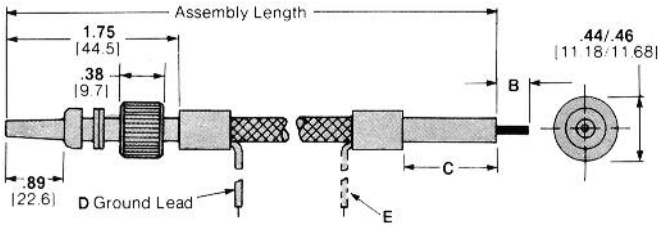
Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
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LGH Lead Assemblies and Receptacles, 15 KVDC, LGH ½ L (Continued)

Shielded Single End Lead Assemblies

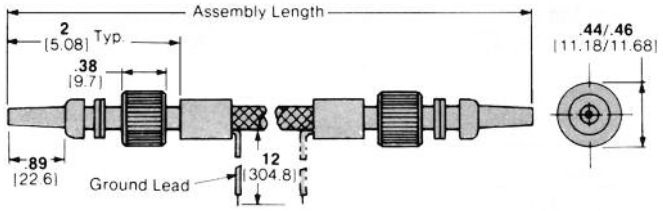


Part Number 858886

Assembly Length	Terminated End	Pigtail End		Part Number	RoHS Part Number
	Ground Lead Length(s) D & E	C	Pigtail Length B		
12.0 304.8	**8.0** 203.2†	**1.5** 38.1	**.25** 6.4	858886-2	5-858886-2
18.0 457.2	**8.0** 203.2	**3.0** 76.2	**.38** 9.7	1-858886-4	—
24.0 609.6	**12.0** 304.8	**3.0** 76.2	**.38** 9.7	1-858886-8	—
36.0 914.4	**12.0** 304.8*	**6.0** 152.4	**.38** 9.7	858886-1	—
	8.0 203.2†	**3.0** 76.2	**.38** 9.7	858886-6	—

*One ground lead, pigtail end only.
†One ground lead, terminated end only.

Shielded Double End Lead Assemblies

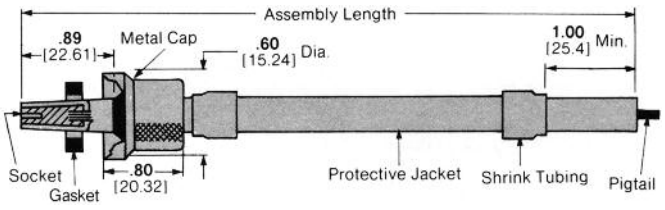


Part Number 858945

Assembly Length	Part Number
12.0 304.8	1-858945-6
18.0 457.2	1-858945-5*
24.0 609.6	2-858945-1
36.0 914.4	858945-3
48.0 1219.2	1-858945-4

*Two ground leads, 12.0 [304.8] each.

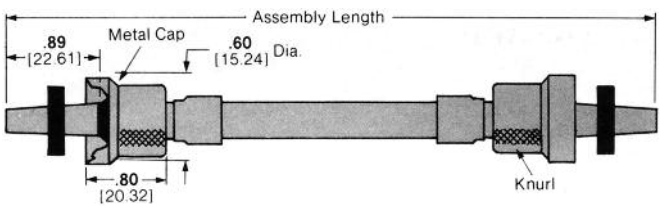
RFI Shielded Single End Lead Assemblies*



Part Number 861809

Assembly Length	Part Number
12.0 304.8	861809-1
18.0 457.2	861809-4
24.0 609.6	861809-5
36.0 914.4	861809-6

RFI Shielded Double End Lead Assemblies*



Part Number 861810

Assembly Length	Part Number
12.0 304.8	861810-1
18.0 457.2	861810-6
24.0 609.6	861810-7
36.0 914.4	861810-9

* These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861253-1.

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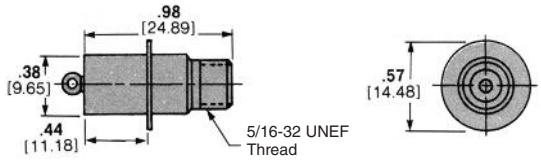
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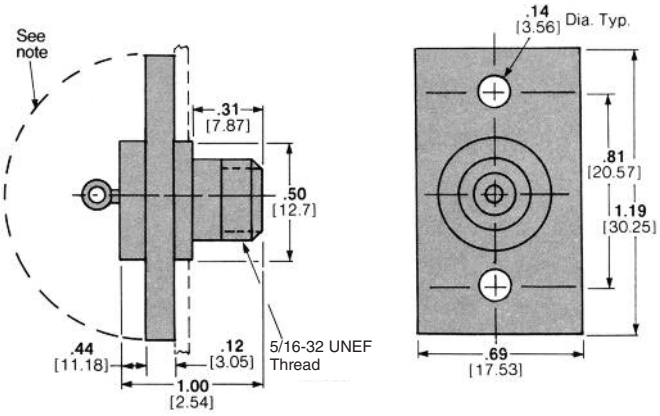
LGH Lead Assemblies and Receptacles, 15 KVDC, LGH ½ L (Continued)

Glass-Epoxy Receptacles with .89 [22.61] Barrel Depth

Flanged, For Hermetic Seal
Part Number 861253-1
RoHS Part Number 5-861253-1
Weight — 3 grams

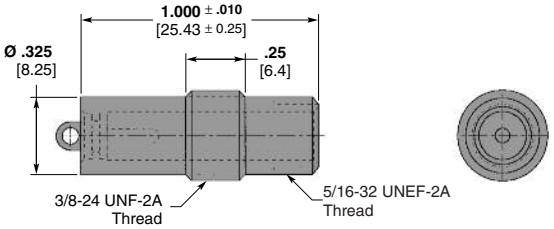


Flanged, Bolt Mount
Part Number 858857-1
RoHS Part Number 5-858857-1
Weight — 6 grams



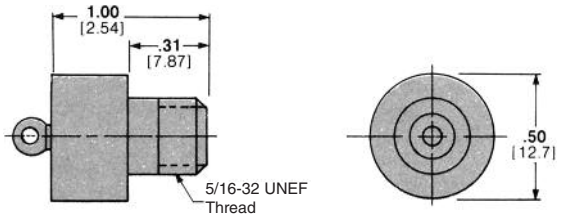
Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

Special Receptacle
Part Number 448464-1



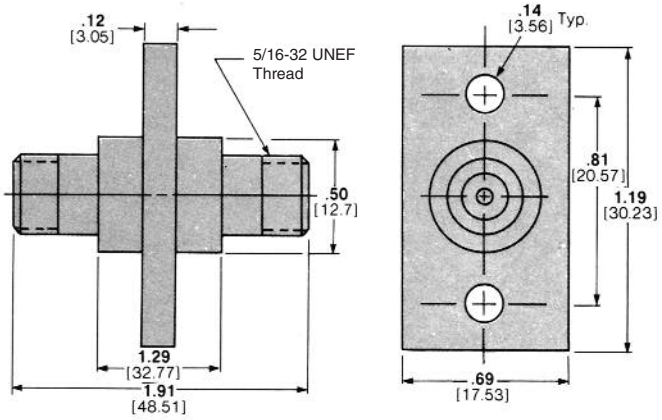
Note: Receptacle will accept a LGH ½ L lead with a .89 [22.6] molded end length.

For Encapsulated Units
Part Number 858855-1
RoHS Part Number 5-858855-1
Weight — 3 grams

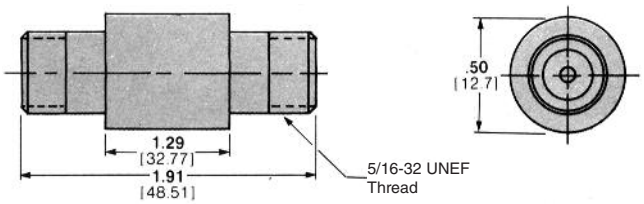


Receptacles are available with gold plated contacts.

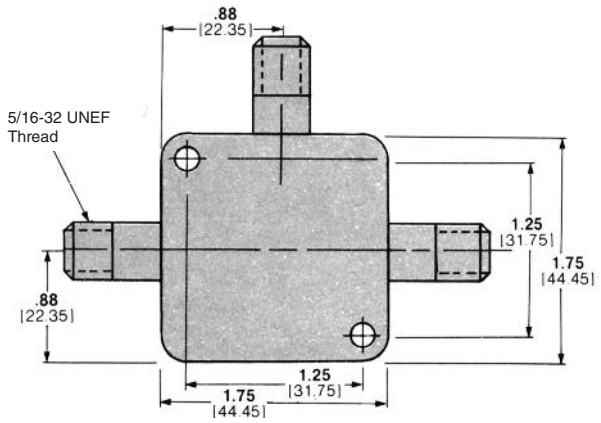
Bolt-Mount, Feed-Through
Part Number 858856-1
Weight — 14 grams



Splice
Part Number 858082-1
Weight — 10.5 grams



T Connector
Part Number 850736-1
RoHS Part Number 5-850736-1
Weight — 23 grams



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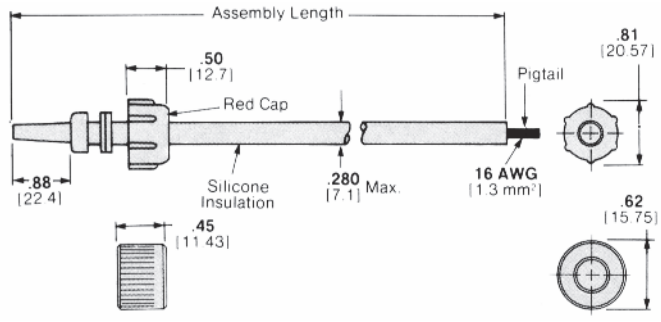
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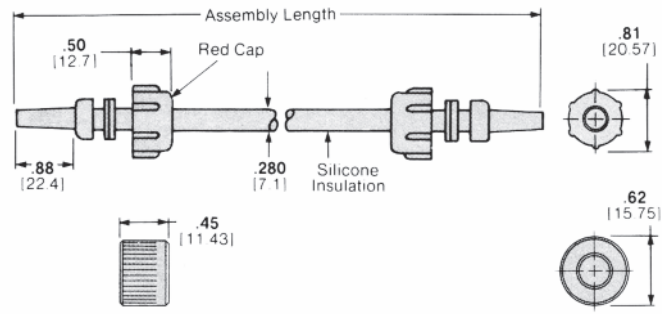
LGH Lead Assemblies and Receptacles, 20 KVDC, LGH 1

Single End Lead Assemblies



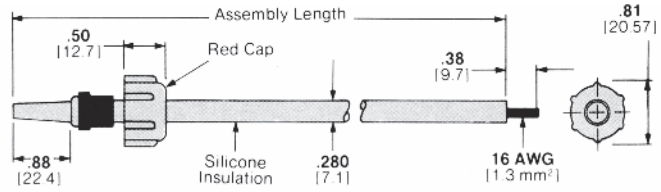
Part Number 837655 and 863701

Double End Lead Assemblies



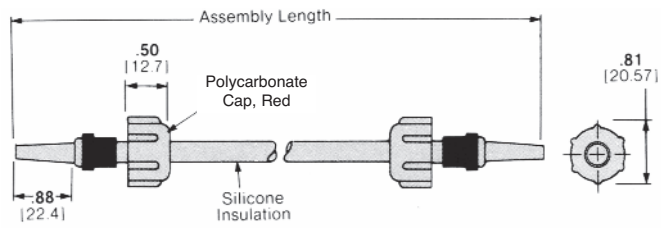
Part Number 830126 and 863702

Single End Lead Assemblies with Positive Stop Ferrules



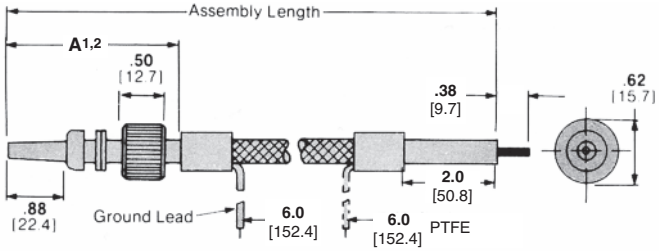
Part Number 862549 and 863703

Double End Lead Assemblies with Positive Stop Ferrules



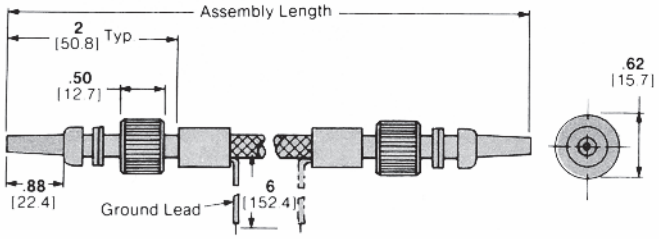
Part Number 862550

Shielded Single End Lead Assemblies



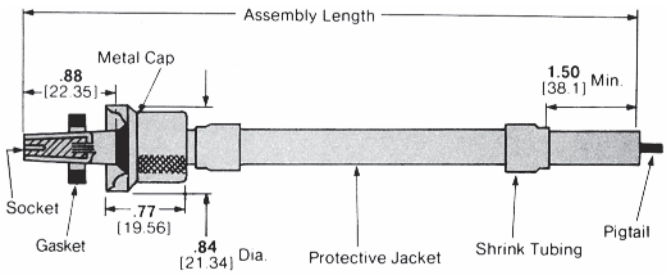
Part Number 849099

Shielded Double End Lead Assemblies



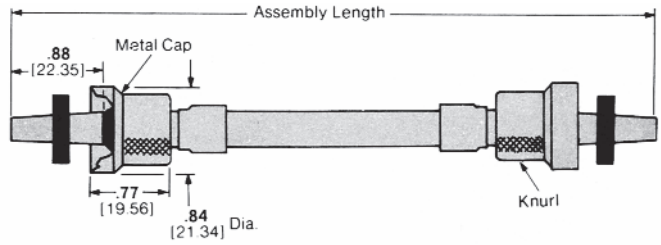
Part Number 849104

RFI Shielded Single End Lead Assemblies*



Part Number 861811

RFI Shielded Double End Lead Assemblies*



Part Number 861812

* These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861254-1.

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LGH Lead Assemblies and Receptacles, 20 KVDC, LGH 1 (Continued)

Lead Assemblies (Continued)

Description	Assembly Length	Part Numbers						
		Polycarbonate Cap		Glass-Filled Polyester Cap		Glass Epoxy Cap		Metal Cap
		Non-RoHS	RoHS	Non-RoHS	RoHS	Non-RoHS	RoHS	Non-RoHS
Single End Lead Assemblies	**6** 152.4	837655-7	5837655-7	863701-7	—	—	—	—
	12 304.8	1-837655-1	1-5837655-1	1-863701-1	1-5863701-1	—	—	—
	18 457.2	1-837655-0	1-5837655-0	1-863701-0	—	—	—	—
	24 609.6	837655-8	—	863701-8	5863701-8	—	—	—
	36 914.4	837655-5	5837655-5	863701-5	5863701-5	—	—	—
	48 1219.2	1-837655-3	1-5837655-3	1-863701-3	1-5863701-3	—	—	—
Double End Lead Assemblies	**6** 152.4	—	—	863702-2	—	830126-2	—	—
	12 304.8	1-830126-3	—	1-863702-3	—	—	—	—
	18 457.2	1-830126-2	—	1-863702-2	—	—	—	—
	24 609.6	1-830126-6	—	1-863702-6	—	—	—	—
	36 914.4	1-830126-7	—	1-863702-7	—	—	—	—
	48 1219.2	2-830126-1	—	2-863702-1	—	—	—	—
Single End Lead Assemblies (with Positive Stop Ferrules)	**6** 152.4	862549-1	—	863703-1	—	—	—	—
	12 304.8	862549-4	5-862549-4	863703-4	—	—	—	—
	18 457.2	862549-6	—	863703-6	—	—	—	—
	24 609.6	862549-8	—	863703-8	—	—	—	—
	36 914.4	862549-9	5-862549-9	863703-9	—	—	—	—
Double End Lead Assemblies (with Positive Stop Ferrules)	**6** 152.4	862550-1	—	—	—	—	—	—
	12 304.8	862550-4	—	—	—	—	—	—
	18 457.2	862550-6	—	—	—	—	—	—
	24 609.6	862550-8	—	—	—	—	—	—
	36 914.4	862550-9	—	—	—	—	—	—
	48 1219.2	1-862550-3	—	—	—	—	—	—
Shielded Single End Lead Assemblies	**6** 152.4	—	—	—	—	849099-7[1]	—	—
	12 304.8	—	—	—	—	1-849099-2[1]	—	—
	18 457.2	—	—	—	—	849103-5[2]	5-849103-5[2]	—
	24 609.6	—	—	—	—	849099-9[1]	—	—
						849103-1†[2]	—	—
	36 914.41	—	—	—	—	849099-4[1]	—	—
	48 1219.2	—	—	—	—	1-849103-9[2]	—	—
Shielded Double End Lead Assemblies	**18** 457.2	—	—	—	—	1-849104-5	—	—
	24 609.6	—	—	—	—	849104-1	—	—
						1-849104-6*	—	—
	36 914.4	—	—	—	—	1-849104-7	6-849104-7	—
						1-849104-9*	—	—
	48 1219.2	—	—	—	—	849104-3	5-849104-3	—
RFI Shielded Single End Lead Assemblies**	**12** 304.8	—	—	—	—	—	—	861811-1
	18 457.2	—	—	—	—	—	—	861811-4
	24 609.6	—	—	—	—	—	—	861811-5
RFI Shielded Double End Lead Assemblies**	**12** 304.8	—	—	—	—	—	—	861812-1
	18 457.2	—	—	—	—	—	—	861812-4
	24 609.6	—	—	—	—	—	—	861812-3
	48 1219.2	—	—	—	—	—	—	861812-2

*Two ground leads, 6 [152.4] each.
**These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861254-1.
†One ground lead, terminated end only. [1]A dim. 3.0 [76.2]. [2]A dim. 2.0 [50.8].

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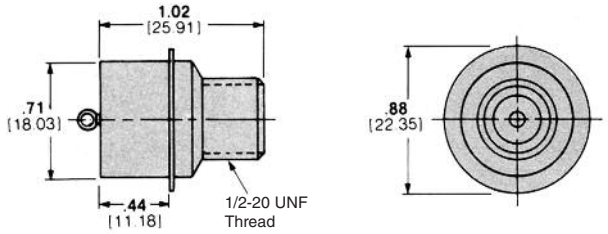
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LGH Lead Assemblies and Receptacles, 20 KVDC, LGH 1 (Continued)

Glass-Epoxy Receptacles with .88 [22.35] Barrel Depth

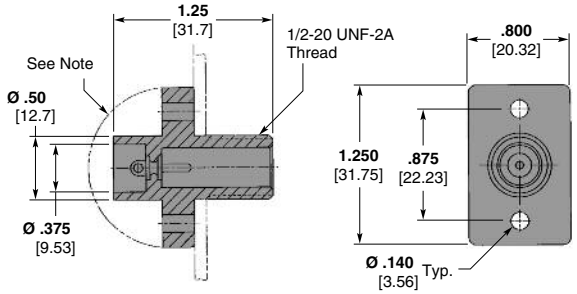
Flanged, for Hermetic Seal
Part Number 861254-1
RoHS Part Number 5-861254-1

Weight — 5 grams



These receptacles are for use with RFI Shielded Lead Assemblies shown on the preceding page.

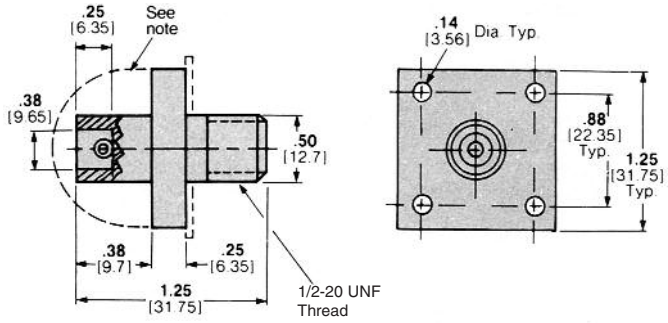
Bulkhead Receptacle
Part Number 449690-1
RoHS Part Number 5-449690-1



Note: Customer must protect back end against arc-over and breakdown if bulkhead and mounting hardware are metallic and at ground potential.

Flanged, Bolt Mount
Part Number 858827-1
RoHS Part Number 5-858827-1

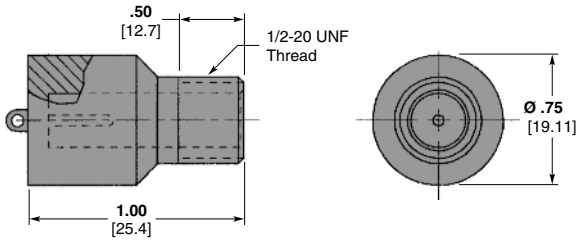
Weight — 16 grams



Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

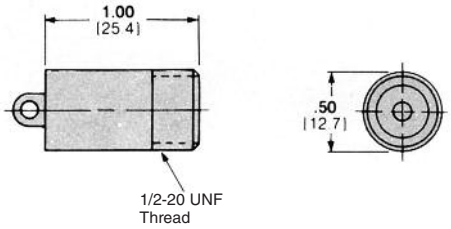
Receptacles are available with gold plated contacts.

Molded Receptacle
Part Number 850306-3
RoHS Part Number 5-850306-3

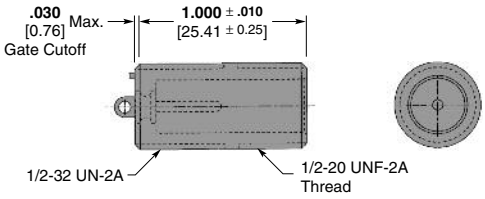


For Encapsulated Units
Part Number 834333-2
RoHS Part Number 5-834333-2

Weight — 4 grams

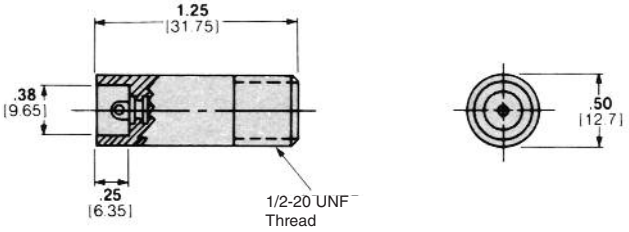


Special Receptacle
Part Number 448463-1



With Recessed Terminal for Encapsulated Units
Part Number 849610-3
RoHS Part Number 5-849610-3

Weight — 5 grams



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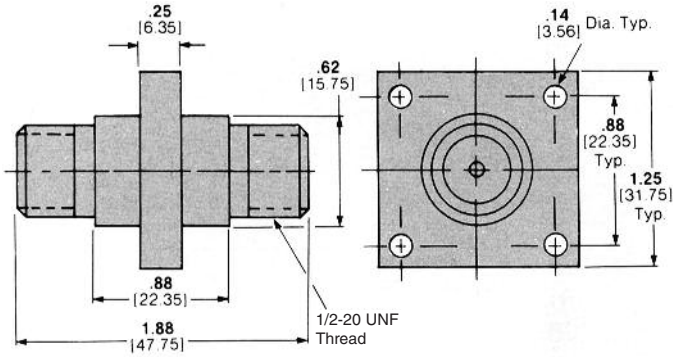
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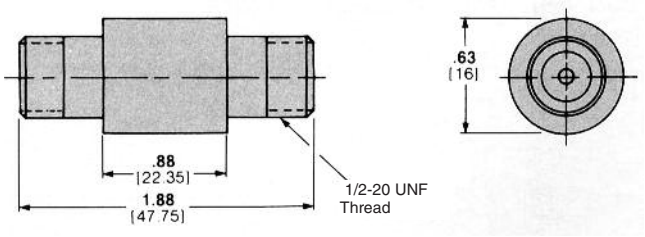
LGH Lead Assemblies and Receptacles, 20 KVDC, LGH 1 (Continued)

Glass-Epoxy Receptacles with .88 [22.35] Barrel Depth (Continued)

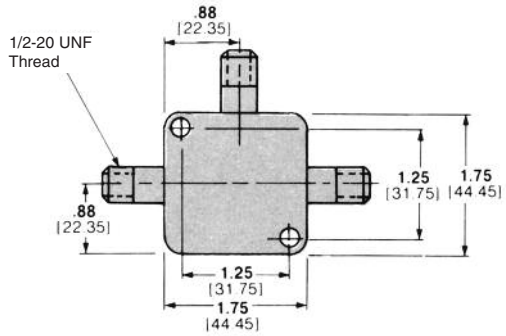
Bolt Mount, Feed-Through
Part Number 846793-1
Weight — 23 grams



Splice
Part Number 830149-1
Weight — 10 grams



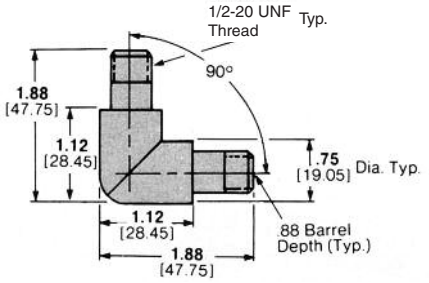
T-Shape Connector
Part Number 836674-1
RoHS Part Number 5-836674-1
Weight — 100 grams



Receptacles are available with gold plated contacts.

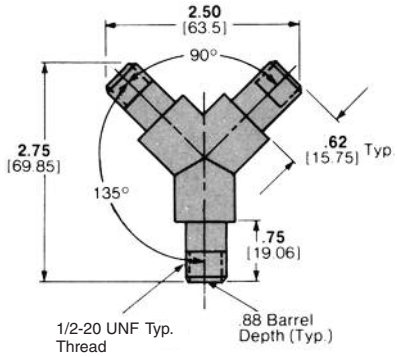
L-Shape Receptacles with .88 [22.35] Barrel Depth

Splice
Part Number 849662-1 —
Tin Plated Pins



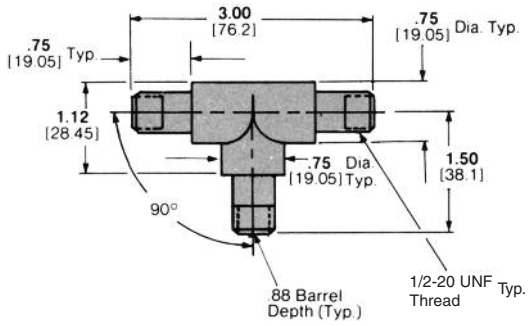
Y-Shape Receptacles with .88 [22.35] Barrel Depth

Splice
Part Number 849693-1 —
Tin Plated Pins



T-Shape Receptacles with .88 [22.35] Barrel Depth

Splice
Part Number 849671-1 —
Tin Plated Pins



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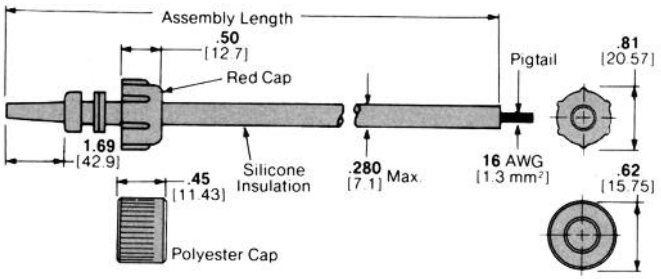
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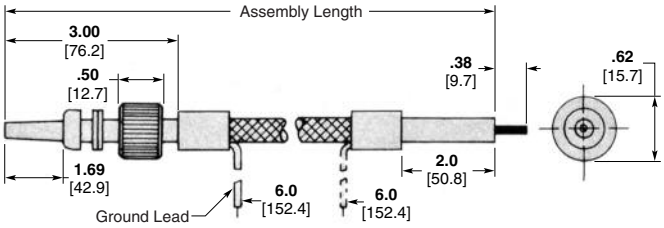
LGH Lead Assemblies and Receptacles, 25 KVDC, LGH 1 L

Single End Lead Assemblies



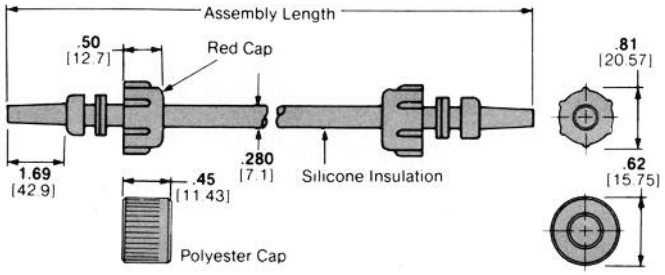
Part Number 830637

Shielded Single End Lead Assemblies



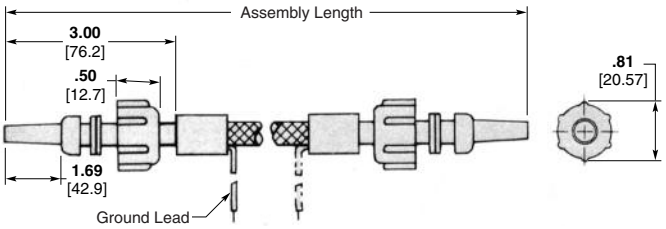
Part Number 846938

Double End Lead Assemblies



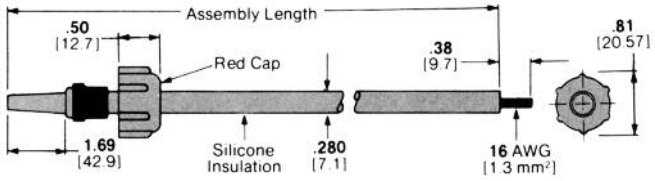
Part Number 830638

Shielded Double End Lead Assemblies



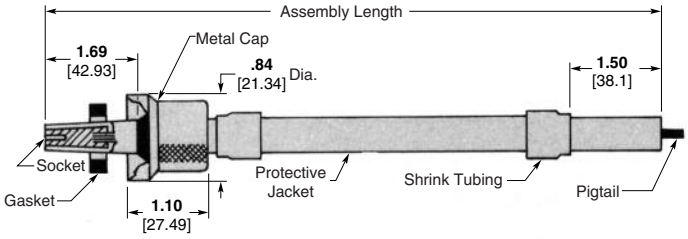
Part Number 849616

Single End Lead Assemblies with Positive Stop Ferrules



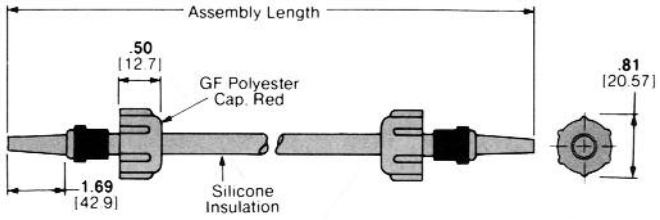
Part Number 862551

RFI Shielded Single End Lead Assemblies



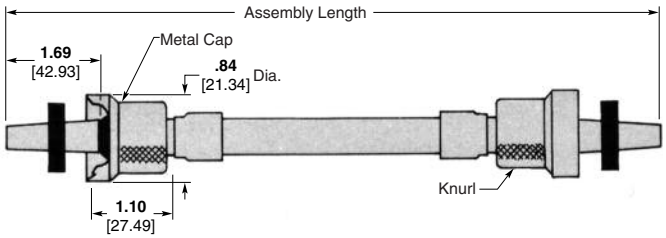
Part Number 861813

Double End Lead Assemblies with Positive Stop Ferrules



Part Number 862552

RFI Shielded Double End Lead Assemblies



Part Number 861814

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LGH Lead Assemblies and Receptacles, 25 KVDC, LGH 1 L (Continued)

Lead Assemblies (Continued)

Description	Assembly Length	Part Numbers						
		Polycarbonate Cap		Glass-Filled Polyester Cap		Glass Epoxy Cap		Metal Cap
		Non-RoHS	RoHS	Non-RoHS	RoHS	Non-RoHS	RoHS	Non-RoHS
Single End Lead Assemblies	**6** 152.4	2-830637-1	—	2-863705-1	—	—	—	—
	12 304.8	1-830637-2	1-5830637-2	1-863705-2	—	—	—	—
	18 457.2	1-830637-3	1-5830637-3	1-863705-3	—	—	—	—
	24 609.6	2-830637-8	2-5830637-8	2-863705-8	7-863705-8	—	—	—
	36 914.4	830637-5	5830637-5	863705-5	—	—	—	—
	48 1219.2	2-830637-4	2-5830637-4	2-863705-4	—	—	—	—
Double End Lead Assemblies	**6** 152.4	—	—	863706-2	—	830638-2	—	—
	12 304.8	1-830638-5	—	1-863706-5	—	—	—	—
	18 457.2	2-830638-0	—	2-863706-0	—	—	—	—
	24 609.6	830638-9	—	863706-9	—	—	—	—
	36 914.4	830638-6	—	863706-6	—	—	—	—
	48 1219.2	1-830638-9	—	1-863706-9	—	—	—	—
Single End Lead Assemblies (with Positive Stop Ferrules)	**6** 152.4	862551-1	—	863707-1	—	—	—	—
	12 304.8	862551-4	5-862551-4	863707-4	—	—	—	—
	18 457.2	862551-6	—	863707-6	—	—	—	—
	24 609.6	862551-8	—	863707-8	5-863707-8	—	—	—
	36 914.4	1-862551-5	—	1-863707-5	—	—	—	—
	48 1219.2	1-862551-2	—	1-863707-2	6-863707-2	—	—	—
Double End Lead Assemblies (with Positive Stop Ferrules)	**6** 152.4	—	—	—	—	862552-1	—	—
	12 304.8	862552-4	—	—	—	—	—	—
	18 457.2	862552-6	—	—	—	—	—	—
	24 609.6	862552-8	—	—	—	—	—	—
	36 914.4	1-862552-3	—	—	—	—	—	—
	48 1219.2	1-862552-0	—	—	—	—	—	—
Shielded Single End Lead Assemblies	**18** 457.2	—	—	—	—	2-846938-0	—	—
	24 609.6	—	—	—	—	2-846938-1	—	—
	36 914.4	—	—	—	—	1-846938-6††	—	—
	48 1219.2	—	—	—	—	846938-8†	—	—
Shielded Double End Lead Assemblies	**12** 304.8	—	—	—	—	849616-7	—	—
	18 457.2	—	—	—	—	1-849616-5	—	—
	36 914.4	—	—	—	—	1-849616-0*	—	—
	60 1524.0	—	—	—	—	2-849616-2*	7-849616-2*	—
RFI Shielded Single End Lead Assemblies**	**12** 304.8	—	—	—	—	—	—	861813-1
	24 609.6	—	—	—	—	—	—	861813-2
	48 1219.2	—	—	—	—	—	—	861813-5
RFI Shielded Double End Lead Assemblies	**12** 304.8	—	—	—	—	—	—	861814-1
	18 457.2	—	—	—	—	—	—	1-861814-9
	24 609.6	—	—	—	—	—	—	2-861814-1
	36 914.4	—	—	—	—	—	—	1-861814-5
	48 1219.9	—	—	—	—	—	—	1-861814-6

*Two equal length ground leads.
**These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861255-1.
†One ground lead, pigtail end only.
††One ground lead, terminated end only. Pigtail End 13 [330.2].

Catalog 1308940
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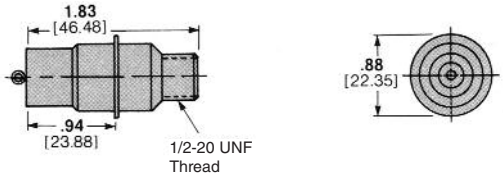
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LGH Lead Assemblies and Receptacles, 25 KVDC, LGH 1 L (Continued)

Glass-Epoxy Receptacles with 1.69 [42.93] Barrel Depth

Flanged, for Hermetic Seal
Part Number 861255-1
RoHS Part Number 5-861255-1

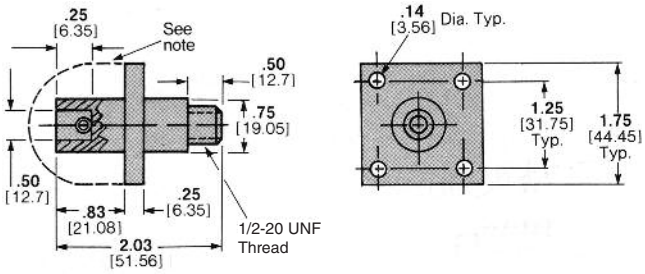
Weight — 17 grams



These receptacles are for use with RFI Shielded Leads shown on the preceding page.

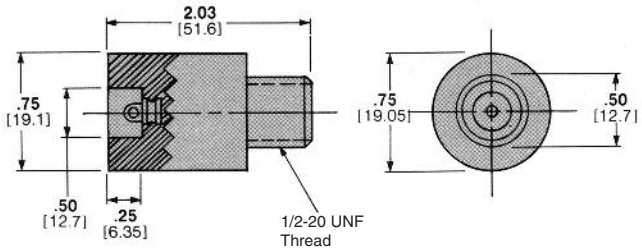
Flanged, Bolt Mount
Part Number 846814-1
RoHS Part Number 5-846814-1

Weight — 32 grams



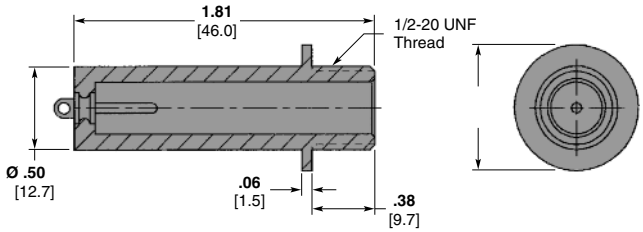
With Recessed Terminal for Encapsulated Units
Part Number 859058-3

Weight — 16 grams



Flanged Receptacle
Part Number 449925-1

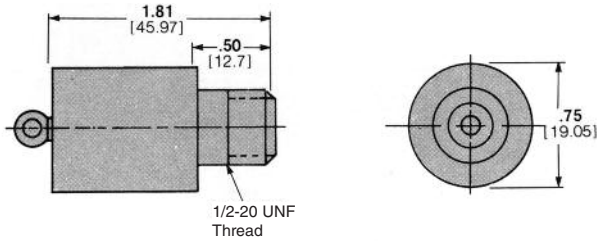
Color — Red



Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

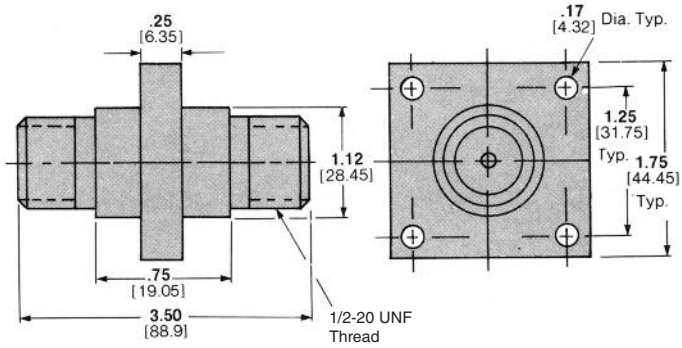
For Encapsulated Units
Part Number 858868-1
RoHS Part Number 5-858868-1

Weight — 15 grams



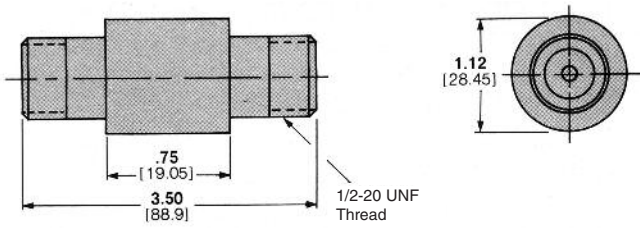
Bolt-mount, Feed-through
Part Number 858873-1

Weight — 70 grams



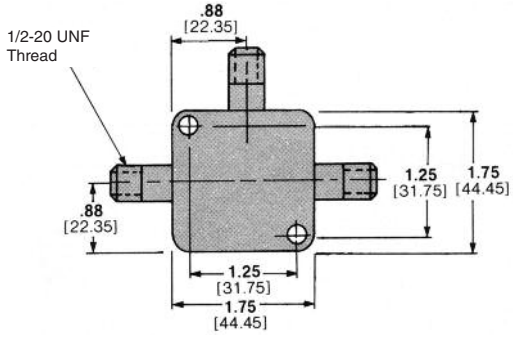
Splice
Part Number 858030-1

Weight — 52 grams



T-Shape Connector
Part Number 830699-1
RoHS Part Number 5-830699-1

Weight — 110 grams



Receptacles are available with gold plated contacts.

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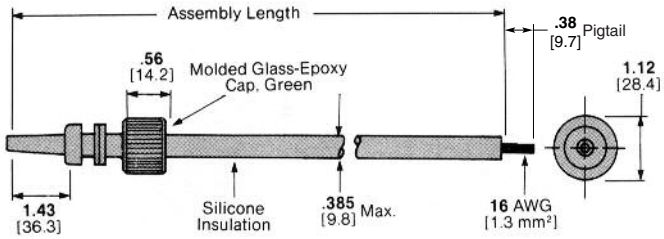
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LGH Lead Assemblies and Receptacles, 30 KVDC, LGH 2

Single End Lead Assemblies

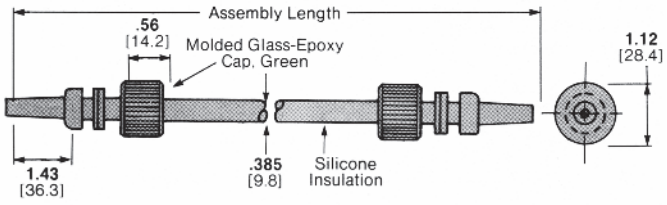


Part Number 839564

Assembly Length	Part Number
6.0 152.4	1-839564-8
12.0 304.8	839564-1 5-839564-1*
18.0 457.2	2-839564-9
24.0 609.6	839564-2 5-839564-2*
36.0 914.4	1-839564-9 6-839564-9*
48.0 1219.2	1-839564-3 6-839564-3*

*RoHS compliant Part Number.

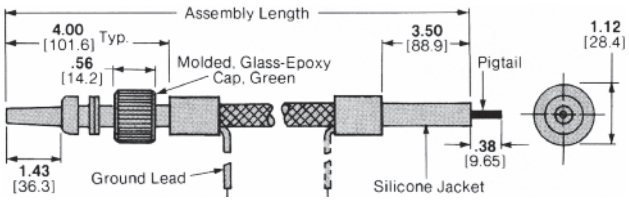
Double End Lead Assemblies



Part Number 839565

Assembly Length	Part Number
8.0 203.2	1-839565-3
12.0 304.8	839565-1
18.0 457.2	2-839565-9
24.0 609.6	839565-9
36.0 914.4	2-839565-5
48.0 1219.2	839565-6

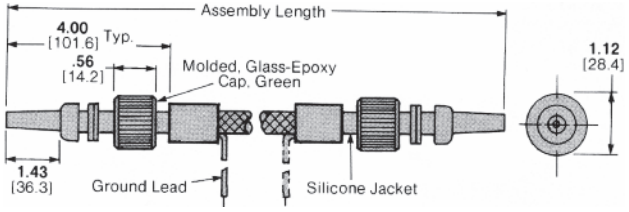
Shielded Single End Lead Assemblies



Part Number 849371

Assembly Length	Part Number
12.0 304.8	849371-2
18.0 457.2	849371-8
24.0 609.6	849371-3
48.0 1219.2	849371-9

Shielded Double End Lead Assemblies

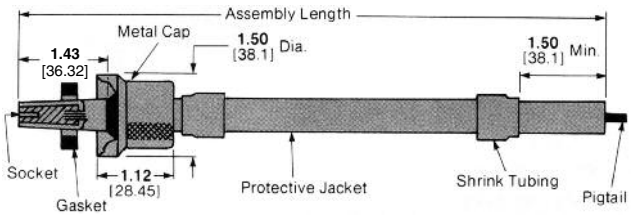


Part Number 848075

Assembly Length	Part Number
24.0 609.6	1-848075-5
36.0 914.4	1-848075-6
48.0 1219.2	2-848075-2**

**Two ground leads, 6.0 [152.4] each

RFI Shielded Single End Lead Assemblies***



Part Number 867447

Assembly Length	Part Number
12.0 304.8	867447-1
24.0 609.6	867447-2
36.0 914.4	867447-3
48.0 1219.2	867447-4

Note: Standard length leads are tabulated here. TE Connectivity can make available numerous variations in length and material to suit almost any application. Choices of insulation materials include PTFE, UL listed silicone and UL listed PVC. Other materials, colors, wire and configurations can be used in manufacture. For more information, consult TE.
*** These RFI Shielded Lead Assemblies mate with Receptacle Part Number 861256-1.

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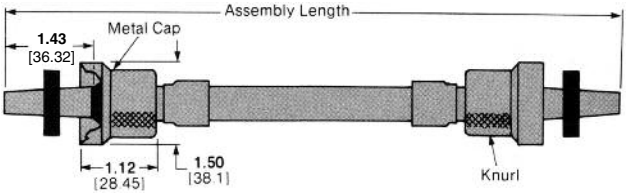
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LGH Lead Assemblies and Receptacles, 30 KVDC, LGH 2 (Continued)

RFI Shielded Double End Lead Assemblies*



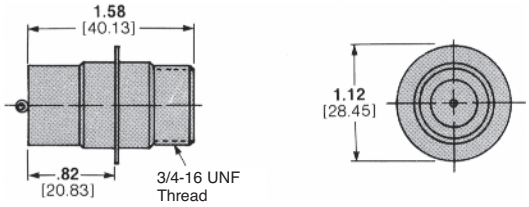
Part Number 867448

Assembly Length	Part Number
12.0 304.8	867448-1
24.0 609.6	867448-2
36.0 914.4	867448-3
48.0 1219.2	867448-4

Note: Standard length leads are tabulated here. TE Connectivity can make available numerous variations in length and material to suit almost any application. Choices of insulation materials include PTFE, UL listed silicone and UL listed PVC. Other materials, colors, wire and configurations can be used in manufacture. For more information, consult TE.
* These RFI Shielded Lead Assemblies mate with receptacle 861256-1.

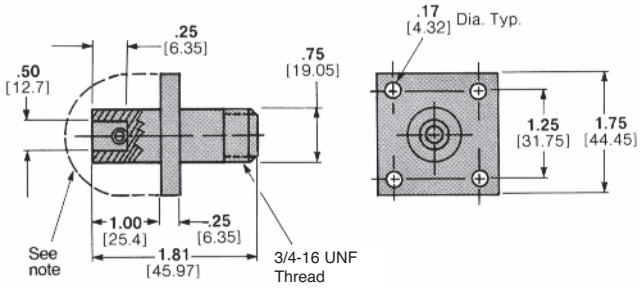
Glass-Epoxy Receptacles with 1.44 [36.58] Barrel Depth

Flanged, for Hermetic Seal
Part Number 861256-1
RoHS Part Number 5-861256-1
Weight — 20 grams



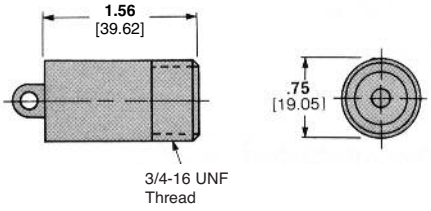
These receptacles are for use with RFI Shielded Leads shown on the preceding page.

Flanged, Bolt Mount
Part Number 850910-1
RoHS Part Number 5-850910-1
Weight — 42 grams

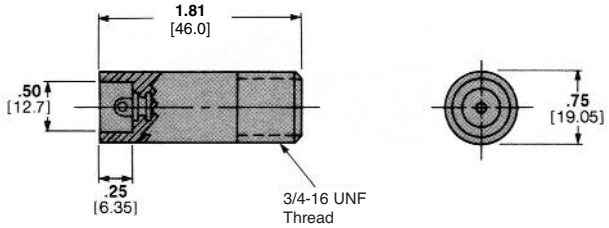


Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

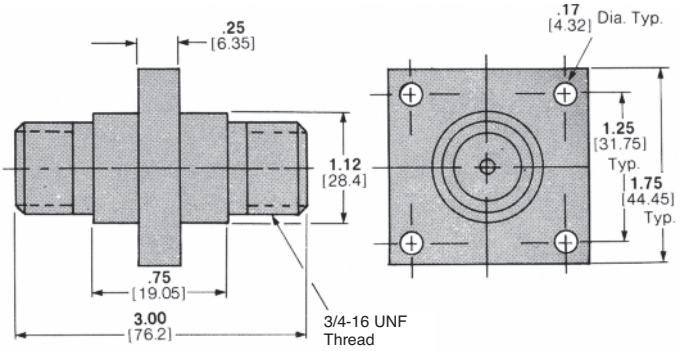
For Encapsulated Units
Part Number 1-849587-1
RoHS Part Number 1-5849587-1
Weight — 17 grams



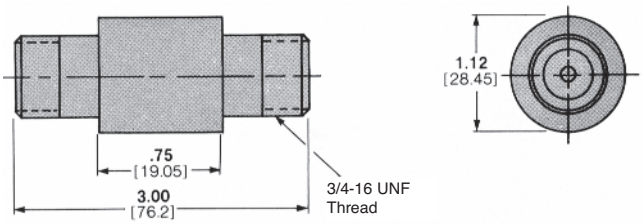
With Recessed Terminal for Encapsulated Units
Part Number 849588-1
RoHS Part Number 5-849588-1
Weight — 20 grams



Bolt-mount, Feed-through
Part Number 850735-1
Weight — 70 grams



Splice
Part Number 850555-1
Weight — 43 grams



Receptacles are available with gold plated contacts.

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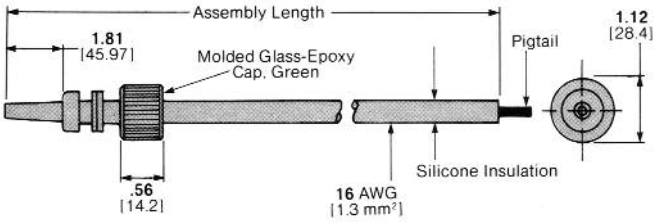
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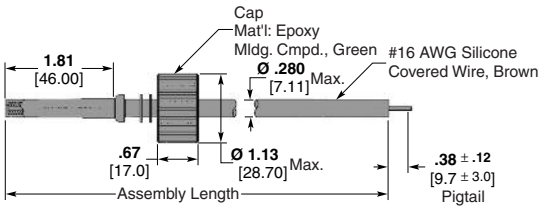
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LGH Lead Assemblies and Receptacles, 40 KVDC, LGH 3

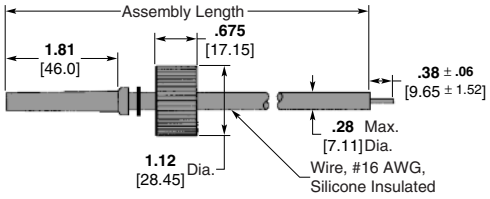
Single End Lead Assemblies



Part Number 837975



Part Number 868354

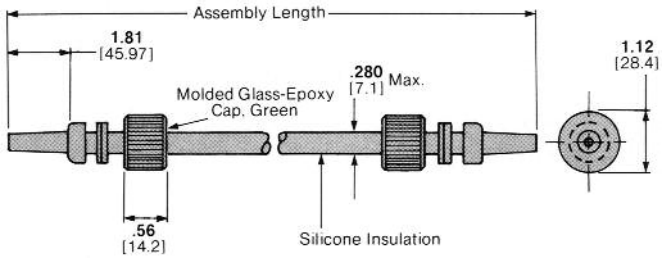


Part Number 869084

Assembly Length	Wire Color	Part Number
6.0 152.4	—	837975-6
12.0 304.8	—	837975-8
18.0 457.2	—	837975-3 5-837975-3*
24.0 609.6	—	1-837975-6 6-837975-6*
36.0 914.4	—	837975-2
48.0 1219.2	—	837975-9 5-837975-9*
60.0 ± 1.00 1524.0 ± 25.4	Brown	868354-2
18.0 ± .25 457.2 ± 6.35	Brown	869084-1
18.0 ± .25 457.2 ± 6.35	Red	869084-2
18.0 ± .25 457.2 ± 6.35	Yellow	869084-3
18.0 ± .25 457.2 ± 6.35	Green	869084-4
18.0 ± .25 457.2 ± 6.35	White	869084-5
24.0 ± .25 609.6 ± 6.35	Brown	869084-6 5-869084-6*
24.0 ± .25 609.6 ± 6.35	Yellow	869084-7 5-869084-7*
24.0 ± .25 609.6 ± 6.35	Green	869084-8 5-869084-8*
24.0 ± .25 609.6 ± 6.35	White	869084-9 5-869084-9*
36.0 ± .25 914.4 ± 6.35	Brown	1-869084-0
48.0 ± .25 1219.2 ± 6.35	Red	1-869084-1
36.0 ± .25 914.4 ± 6.35	Yellow	1-869084-2 6-869084-2*
36.0 ± .25 914.4 ± 6.35	Green	1-869084-3 6-869084-3*

*RoHS compliant Part Number.

Double End Lead Assemblies



Part Number 830649

Assembly Length	Part Number
12.0 304.8	830649-1
18.0 457.2	830649-3
24.0 609.6	1-830649-0
36.0 914.4	830649-2
48.0 1219.2	830649-6

Catalog 1308940
Revised 9-14

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Dimensions are shown for reference purposes only. Specifications subject to change.

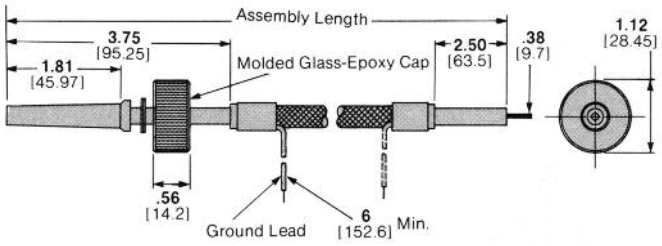
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LGH Lead Assemblies and Receptacles, 40 KVDC, LGH 3 (Continued)

Shielded Single End Lead Assemblies

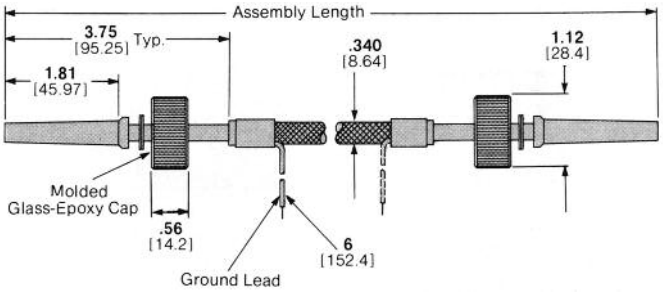


Part Number 848076

Assembly Length	Part Number
12.0 304.8	1-848076-1
18.0 457.2	848076-5
24.0 609.6	848076-1
36.0 914.4	848076-8**
48.0 1219.2	848076-3 5-848076-3*
360.0 9144.0	2-848076-1
16.25 412.8	2-848076-2 7-848076-2*
29.75 755.7	2-848076-3 7-848076-3*
20.25 514.4	2-848076-4
21.75 552.5	2-848076-5 7-848076-5*
16.25 412.8	2-848076-6 7-848076-6*

All leads are shielded and glass braid covered.
*RoHS compliant Part Number.
**Two ground leads each 7" long.

Shielded Double End Lead Assemblies



Part Number 848077

Assembly Length	Part Number
12.0 304.8	848077-4
24.0 609.6	848077-1
48.0 1219.2	848077-3 5-848077-3*

*RoHS compliant Part Number.

Catalog 1308940
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Dimensions are in millimeters unless otherwise specified.

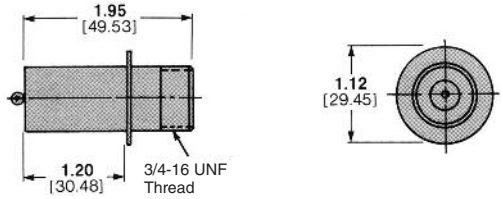
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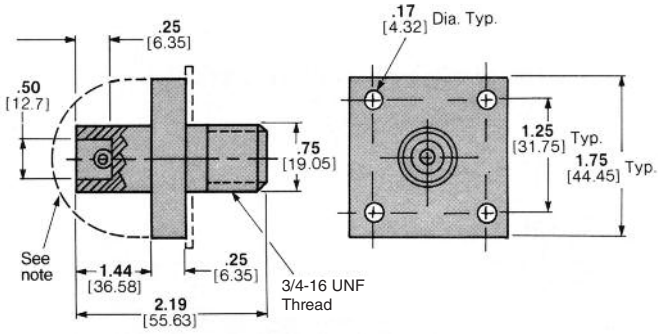
LGH Lead Assemblies and Receptacles, 40 KVDC, LGH 3 (Continued)

Glass-Epoxy Receptacles with 1.81 [45.97] Barrel Depth

Flanged, For Hermetic Seal
Part Number 861257-1
RoHS Part Number 5-861257-1
Weight — 32 grams

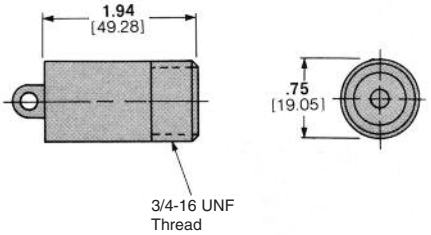


Flanged, Bolt Mount
Part Number 850911-1
RoHS Part Number 5-850911-1
Weight — 53 grams

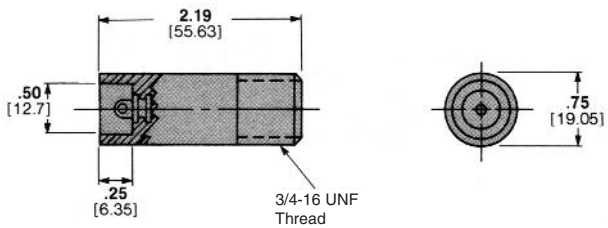


Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

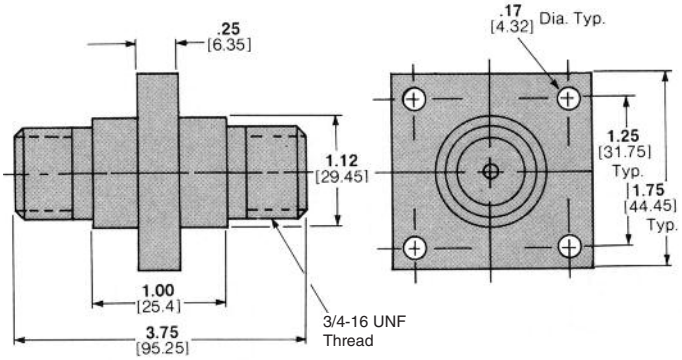
For Encapsulated Units
Part Number 849587-9
RoHS Part Number 5849587-9
Weight — 28 grams



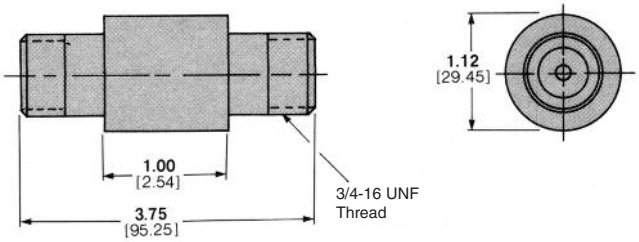
With Recessed Terminal For Encapsulated Units
Part Number 849588-3
RoHS Part Number 5-849588-3
Weight — 34 grams



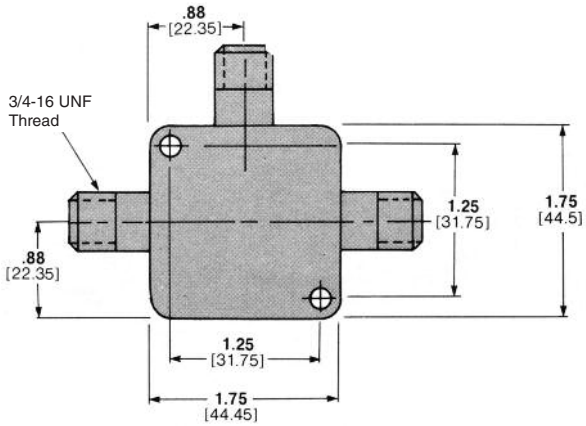
Bolt-Mount, Feed-Through
Part Number 850909-1
Weight — 91 grams



Splice
Part Number 850908-1
Weight — 65 grams



T-Shape Connector
Part Number 860708-1
RoHS Part Number 5-860708-1
Weight — 135 grams



Receptacles are available with gold plated contacts.

Catalog 1308940
Revised 9-14

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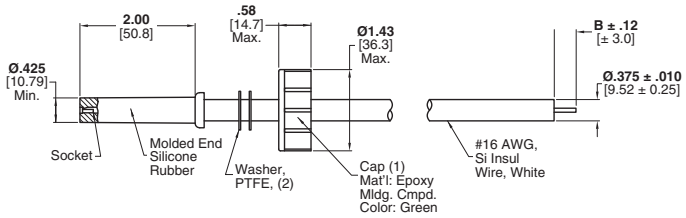
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LGH Lead Assemblies and Receptacles, 50 KVDC, LGH 4

Single End Lead Assemblies

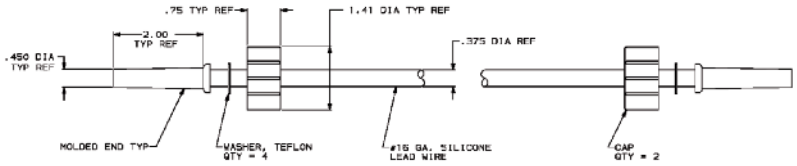


Part Number 846290

Assembly Length	Part Number
6.0 152.4	1-846290-7
12.0 304.8	846290-1 5-846290-1*
18.0 457.2	1-846290-6 6-846290-6*
24.0 609.6	846290-3 5-846290-3*
36.0 914.4	846290-6 5-846290-6*
48.0 1219.2	846290-4 5-846290-4*

*RoHS compliant Part Number.

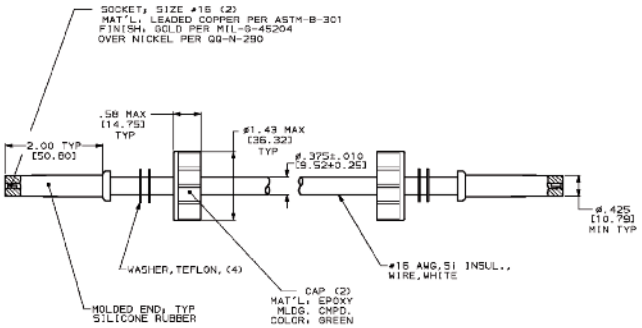
Double End Lead Assemblies



Part Number 445217

Assembly Length	Part Number
18.0 ± .12 457.2 ± 3.05	445217-2
24.0 ± .24 609.6 ± 6.10	445217-1

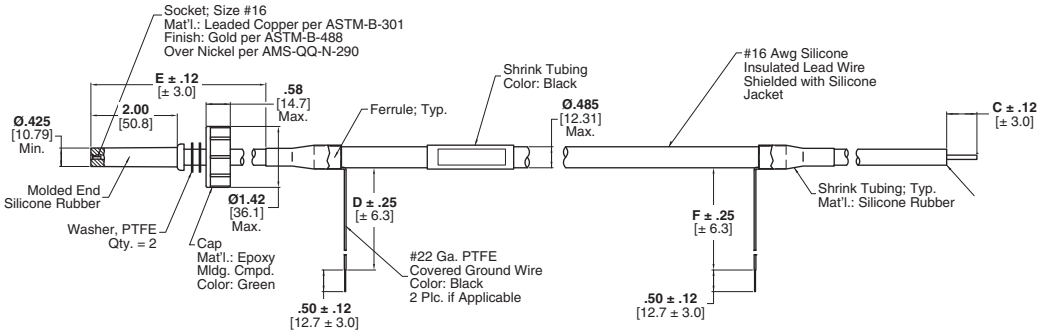
Double End Lead Assemblies



Part Number 846291

Assembly Length	Part Number
12.0 304.8	846291-1
18.0 457.2	1-846291-1
24.0 609.6	846291-3
36.0 914.4	846291-4

Shielded Single End Lead Assemblies



Part Number 848078

Assembly Length	Part Number
24.0 609.6	848078-1
36.0 914.4	2-848078-0
48.0 1219.2	848078-2

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

Catalog 1308940
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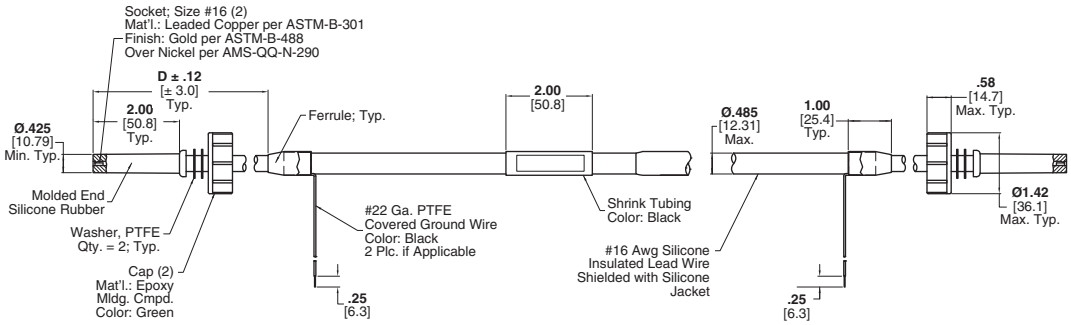
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LGH Lead Assemblies and Receptacles, 50 KVDC, LGH 4 (Continued)

Shielded Double End Lead Assemblies

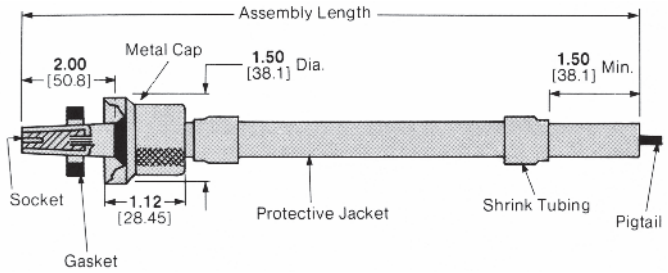


Part Number 846950

Assembly Length	Part Number
12.0 304.8	846950-6
	846950-7
48.0 1219.2	1-846950-0 6-846950-0*

*RoHS compliant Part Number.

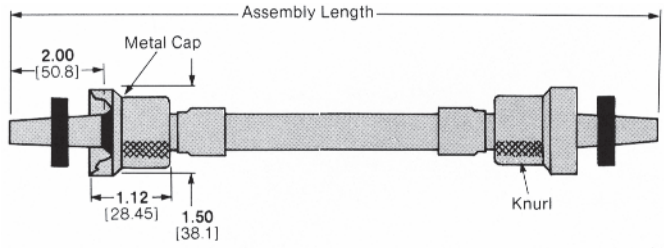
RFI Shielded Single End Lead Assemblies*



Part Number 865089

Assembly Length	Part Number
12.0 304.8	865089-4
18.0 457.2	865089-5
24.0 609.6	865089-6
36.0 914.4	865089-7
48.0 1219.2	865089-8

RFI Shielded Double End Lead Assemblies*



Part Number 865090

Assembly Length	Part Number
12.0 304.8	865090-4
18.0 457.2	865090-7
24.0 609.6	865090-1
36.0 914.4	865090-5 5-865090-5*

*RoHS compliant Part Number.

Note: Standard length leads are tabulated here. TE Connectivity can make available numerous variations in length and material to suit almost any application. Choices of insulation materials include PTFE, UL listed silicone and UL listed PVC. Other materials, colors, wire and configurations can be used in manufacture. For more information, consult TE.
* These RFI Shielded Lead Assemblies mate with receptacle 861258-1.

Catalog 1308940
Revised 9-14

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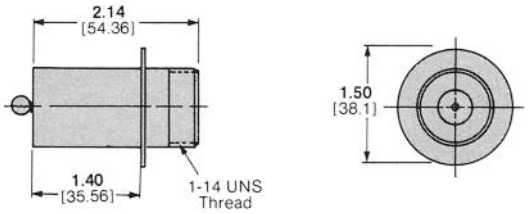
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LGH Lead Assemblies and Receptacles, 50 KVDC, LGH 4 (Continued)

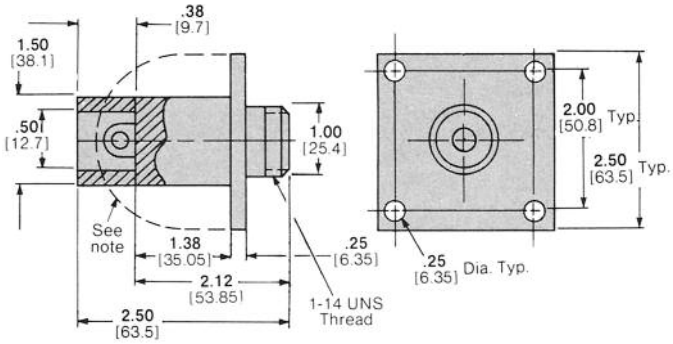
Glass-Epoxy Receptacles with 2.00 [50.8] Barrel Depth

Flanged, For Hermetic Seal
Part Number 861258-1
RoHS Part Number 5-861258-1
Weight — 48 grams



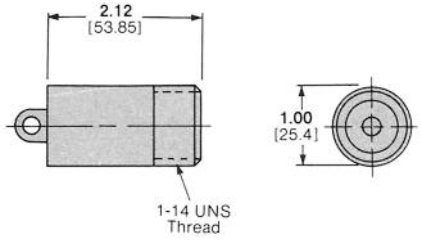
These receptacles are for use with RFI Shielded Leads shown on the preceding page.

Flanged, Bolt Mount
Part Number 850912-1
RoHS Part Number 5-850912-1
Weight — 100 grams

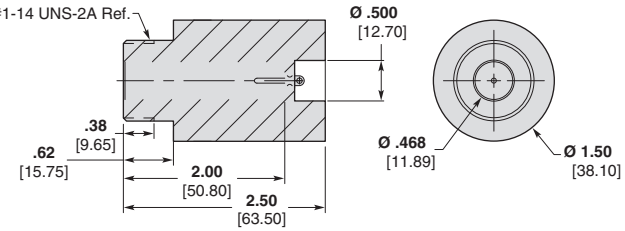


Note: If the panel or mounting hardware is at ground potential, guard against arc-over and breakdown within the area defined by this line.

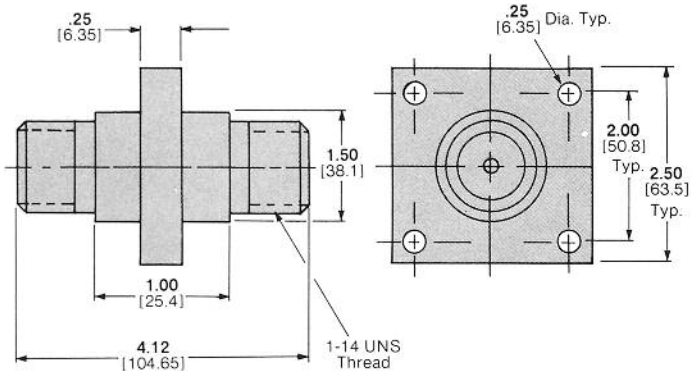
For Encapsulated Units
Part Number 836567-1
RoHS Part Number 5-836567-1
Weight — 42 grams



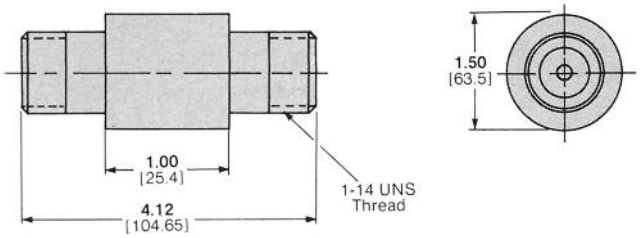
With Recessed Terminal For Encapsulated Units
Part Number 849853-1
RoHS Part Number 5-849853-1
Weight — 55 grams



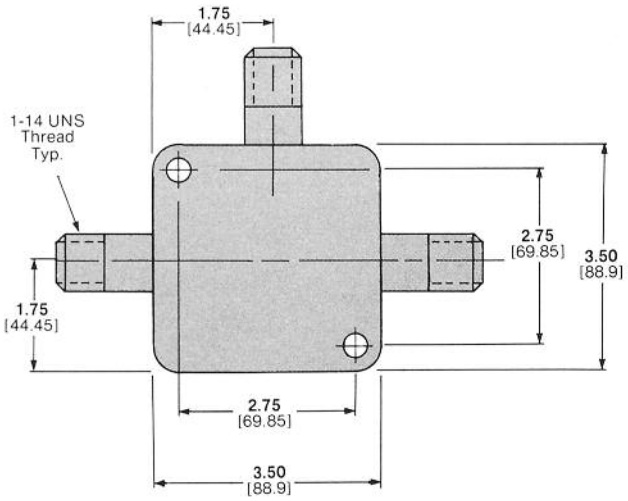
Bolt-Mount, Feed-Through
Part Number 840468-1
Weight — 137 grams



Splice
Part Number 840467-1
Weight — 105 grams



T-Shape Connector
Part Number 850554-1
RoHS Part Number 5-850554-1
Weight — 315 grams



Receptacles are available with gold plated contacts.

Catalog 1308940
Revised 9-14

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