

CONNECTING YOUR ENGINEERING PASSION



LM Series MIL-DTL-22992 Class L

MILITARY STYLE CONNECTORS

MILITARY & DEFENSE EDITION

IP67 Rated Waterproof Connectors
Heavy Duty Shell Construction
40-200 Amp Rated

Milnec Interconnect Systems

About Us

ILNEC INTERCONNECT SYSTEMS is a leader in the design, manufacture, and supply of high-performance cylindrical interconnect systems. From research stations in the Antarctic to spacecraft on

the plains of Mars, our high-reliability connector systems conquer the most demanding environments. Milnec is a supplier to leading companies in 24 countries in the following industries:

- Military & Defense
- Aerospace & Space
- Railway & MassTransit
- Industrial & Heavy Equipment
- Alternative Energy, Nuclear, Oil & Gas

Logistics Solutions for Global Applications

Global logistics and support means we deliver products on time every time to any destination. To support your immediate requirements, we have extensive inventories, making most systems readily available for today's compressed design and production schedules. On average, custom connector solutions made to your exact configuration ship within seven days from the time of order placement.

- Worldwide shipping (restricted to NATO countries only)
- Web access to inventory, prices, & delivery information
- A large stock of popular parts for greater availability
- Competitive pricing and short lead times
- Impeccable customer service & technical support

Milnec Interconnect Systems

3947 West Lincoln Highway #192 Downingtown, PA 19335

1-855-4MILNEC Toll Free (1-855-464-5632)

technical-support@milnec.com

U.S. Military Cage Code: 6STX5

NAICS Code: 423690

High Reliability-Simplified

Just because your interconnect problem is complicated does not mean acquiring the solution has to be. Milnec connector systems and our "all-in-one" kits provide engineers the most complete and professional connector solutions with ease and technical clarity.



- · Complete, high-reliability solutions
- Simple to understand technical data & configurations
- Online part builder tools, drawings, & documentation
- Field installable & serviceable

Performance With Environmental Responsibility

RoHS compliant products are available to support environmental responsibility and legislative conformity. Through simple modification codes, Milnec provides a wide variety of material options to easily provide customers with fully compliant and eco-friendly connector components.



- RoHS compliant materials & finishes
- Simple material modification codes
- Lead-free solder contacts

Highest Manufacturing Quality

We invest in the finest equipment and modern production processes to ensure that our connectors will exceed your quality and performance expectations. Our production processes include advanced computer numerical control machining, cosmetic and metal finishing, heat treatment, and stainless steel passivation.

- Traceability on 100% of the parts
- Quick production lead times
- Quantity support from R&D to production
- "Just-in-time" delivery, kitting, & special packaging
- Rapid tooling & prototyping for custom designs



Features & Benefits

LM Series • MIL-DTL-22992 Type Power Connectors

MIL-DTL-22992 Compliant Power Connectors

he LM Series of connectors is based on the popular MIL-DTL-22992 Class L standard and is designed to meet or exceed all of the specifications for performance and durability. LM Series connectors are heavy duty, IP67 rated, power connectors built to withstand the rigors of power distribution applications for the most demanding military applications. Connectors are designed with currentspecific ratings ranging from 40 to 200 amps and incorporate various safety features to protect equipment and personnel.

- High-current rating from 40–200 amps
- · Heavy duty shell construction for extreme field service
- Full array of sealing accessory kits for complete environmental installations
- Supplied with complete cable sealing accessories

Table of Contents

About Us P-1
Features & Benefits P-2
Component Overview P-3
Series Specifications P-4
Part Builder P-6
Insert Arrangements & Rotations P-7
Insert Arrangement Drawings P-8
Contact Specifications P-10
Installation Instructions P-12
(LM06) Cable Mount Plug P-14
(LM09) Wall Mount Plug P-15
(LM00) Wall Mount Receptacle P-16
(LM01) Cable Mount Receptacle P-17
(LMCP) Protective Covers P-18
(LMGE) Mounting Gasket P-19
Cable Grip & Sealing Gland P-20

Corrosion Resistant Finish 500 hr salt spray rating for superior corrosion resistance in marine applications.

Heavy Duty Construction Machined aluminium shells for extreme field service and long component life.

Various Safety Features For Operator Safety

LM connectors are designed to provide operator and equipment safety. Accidental cross-mating with an incompatible power source is prevented by unique keyway positions. Recessed socket contacts within the connector insert produce an arc suppressing chamber to protect the user when connectors are separated under load, even in the worst field conditions such as high humidity or wet or muddy conditions. The LM Series also features grounding and neutral contacts designed to pre-engage before the power contacts during coupling, with the reverse occurring during decoupling.

- Arc quenching socket design
- Shell keying differentiates specific voltages
- Alternate insert rotations distinguish frequencies
- · Ground and neutral contacts mate first and break last

Heavy Duty Construction for Extreme Field Service

Connector shells and components are machined from highstrength aluminum for superior durability and are designed for extreme field service where connectors will be subjected to severe impacts, and may even be run over by vehicles. Shells and metal components are plated with corrosion resistant finishes. All LM Series connectors come with integrated accessory kits that feature cable sealing backshells, mounting gaskets, and protective covers. Cable connectors feature braided wire cable grips for superior strain relief.

- IP67 rated in any condition-mated or unmated
- Matching protective covers on all connectors
- Mounting gaskets for all flange mounted connectors
- Braided cable grips on cable plugs & receptacles

Component Overview

LM Series • MIL-DTL-22992 Type Power Connectors



MILNEC INTERCONNECT SYSTEMS

Series Specifications

LM Series • MIL-DTL-22992 Type Power Connectors

Performance Specifications

Built to meet or exceed MIL-DTL-22992 specifications Guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-DTL-22992 Class L military and commercial derivatives

Environmental Characteristics

Temperature Range

-67° to +257°F (-55° to +125°C)

Service life varies with the maximum internal hot spot temperature resulting from any combination of electrical load or ambient temperature:

77°F (25°C): Continuous

221°F (105°C): 35,000 hours

257°F (125°C): 1,000 hours

Heat Rise

Temperature rise of individual contacts will be no more than 54°F (30°C) above ambient temperature

Water Pressure

IP67 rating (environmental sealing) when used in conjunction with proper sealing accessories Fully submersible to 3.3 ft (1m) for minimum of 4 hrs

Air Leakage Rate

Environmental connector air leakage rate shall not exceed 1 inch³/hr (4.55 x10⁻³ cm³/sec) at 30 psi (2.11 kg/cm²) pressure differential

Salt Spray Rating

500 hr salt spray rating

Humidity

Mated connectors shall maintain an insulation resistance of 100 megohms or greater at 77°F (25°C) with 95% humidity for duration of 20 days

Chemical Resistance to Fluids

20 hour full immersion (unmated) in hydraulic fluid and lubricating oil without damage or material degradation

Physical Characteristics

Coupling

Threaded, double-start stub threads, $2^{1\!/}_{4}$ turns to couple with knurled coupling ring

Coupling Torque

 $\begin{array}{l} \mbox{Engagement & Disengagement Force (max / min) \\ \mbox{Shell Size 28: 12.32 ft-lb}_{f} (16.7 N-m) / .68 ft-lb}_{f} (.92 N-m) \\ \mbox{Shell Size 32: 13.35 ft-lb}_{f} (18.1 N-m) / .75 ft-lb}_{f} (1.02 N-m) \\ \mbox{Shell Size 44: 17.63 ft-lb}_{f} (23.9 N-m) / .77 ft-lb}_{f} (1.05 N-m) \\ \mbox{Shell Size 52: 17.63 ft-lb}_{f} (23.9 N-m) / .77 ft-lb}_{f} (1.05 N-m) \\ \end{array}$

Polarization

Single master key, and 4 minor keys

Insert Arrangements

7 inserts available

Insert Rotations

Normal polarization (N), plus 4 alternate insert rotational polarizations (W, X, Y, Z). Refer to the Alternate Insert Rotations chart on p. P-7 for availability.

Endurance Characteristics

Coupling Cycles

250 coupling cycles (minimum)

Shock

50g's, 11ms duration, three major axes,

10 microseconds maximum discontinuity

Vibration

Random vibration at 10 to 2,000Hz (15g's), 10 microseconds maximum discontinuity

Insert Retention

45 lb,/in² (3.164 kg-cm²)





Series Specifications

LM Series • MIL-DTL-22992 Type Power Connectors

Material Characteristics

Shell

High-grade aluminum alloy

Shell Plating

C Finish

Electrically conductive cadmium plate finish with an olive drab (light to dark in color) chromate after-treat for corrosion resistance (500 hr salt spray rating). Thickness of the coating shall be approximately 0.0001 in (.00254 mm).

N Finish

Non-conductive anodized coating finish (gray to black in color) for corrosion resistance (500 hr salt spray rating). Thickness of the coating shall be approximately 0.00005 in (.00127mm).

Shell-to-Shell Conductivity for C Finish

Maximum shell-to-shell conductivity potential drop shall not exceed 200 millivolts before conditioning, and 400 millivolts after conditioning, across the assembly

Insert Assembly

Plastic dielectric, removable

Grommet Assembly

Resilient neoprene dielectric, removable

Covers, Coupling Rings, Cable Sealing Adapters

High-grade aluminum alloy

Protective Cover Chain

Passivated stainless steel, sash chain able to

withstand a 25 lb (11.3 kg) tensile force without damage

Cable Grip

Woven, stainless steel rope

Cable Gland

Neoprene or silicone

O-Ring Seal

Neoprene or silicone

Mounting Gasket

Neoprene or silicone

Contact Characteristics

Co	ntact Design
	Removable, rear-release crimp contacts
Co	ntact Sizes
	#6, #4, #4/0, #1/0
Co	ntacts
	Copper alloy
Co	ntact Plating
	Silver alloy plate, .0002 in (.0051 mm) minimum
Ma	x Number of Contacts
	8
Ma	x Contact Resistance
	<10 milliohm maximum resistance
Gro	ounding
	Automatic, grounding and neutral contacts have
	mate first/break last design
Arc	: Quenching
	Recessed socket contacts within insert create an arc
	suppression chamber for safety
Ma	x Voltage Drop
	<10 millivolt maximum drop for grounding contacts
Co	ntact Retention
	Pin and socket contacts are designed to resist severe
	vibration and repeated connection and disconnection

Electrical Characteristics

Current Rating

200 amps (rated current) at 68°F (20°C) for inserts 52-12 and 52-13 Max Operating Voltage 2,000 VAC (RMS) at sea level Insulation Resistance

>5,000 megohms at 77°F (25°C) Wire Size

6 to 4/0 AWG







Part Builder

LM Series • MIL-DTL-22992 Type Power Connectors

How to Build Your LM Connector Part Number

part number is comprised of a string of characters that represent the different elements of a connector. High-performance connectors are built to order from component form using a unique part number as a blueprint to specify particular characteristics. Each modifier of the part number represents a particular configuration.

Below is an example part number for a LM Series connector that designates, **1**) LM Series wall mount receptacle with socket contacts for power source, **2**) conductive olive drab cadmium finish for AC, **3**) 52-13 insert arrangement for 3 phase AC, 4 wire, grounding, **4**) key position #4 for 120/208 VAC, and **5**) normal rotation designates 60 Hz frequncy. ■

			LM00	С	52-13	4	Ν	
			1	2	3	4	5	
	Series She	I Style			<u> </u>	hell S	ize &	Insert Arrangement
	Plugs (Equ	ipment End)				See li	nsert Ar	rangement Drawings, p. P-8
	LIVI06	Cable mount plug with	oin contacts	5		Deter	mined b	y current capability and cable type
		ncludes backshell, cable	e grip, cove	r		looto	Kov/K	Courses Prosition
		Wall mount plug with p	n contacto		4		Actor K	You/Kouway Position table p. P.7
	LIVIUS	Includes backsholl, gask	ot cover			See N		2 Wire 28 VDC
		n P-15	el, covei			1		3 Phase 3 Wire $450/480$ VAC
						4	AC.	1 Phase, 2 Wire, 120 VAC
	Receptacle	s (Power Source)				4	AC,	1 Phase, 3 Wire, 120/240 VAC
	LM00	Wall mount recept. with	socket con	tacts		4	AC, 3	3 Phase, 4 Wire, 120/208 VAC
		Includes backshell, gask	et, cover			5	AC, ²	1 Phase, 2 Wire, 240 VAC
		p. P-16				5	AC, 3	3 Phase, 4 Wire, 240/416 VAC
	LM01	Cable mount recept. with	n socket cor	tacts		6	AC, 3	3 Phase, 4 Wire, 277/480 VAC
		Includes backshell, cable	e grip, cove	r				
		p. P-17			5 A	ltern	ate Ins	ert Rotations
						Used	to preve	ent cross-mating of different frequencies
2	Material &	Finish				Norm	al Rota	tion
	Aluminum					Ν		Normal
	С	Conductive for AC						(60 Hz AC or DC)
		Olive drab cadmium				Alterr	hate Rol	tations
	N	500 nr. dynamic sait	spray rating]		٧٧,	Χ, Ϋ, Ζ	Alternate Rotations
	IN	Anodized finish				So	o Altorn	(400 HZ AC)
		500 hr. dynamic salt	enrav rating	r		(N)	ot all ro	tations are available for every insert
		500 m. dynamic sait	spray rating	1		arr	andem	ant)
						un	angenne	5.1.7

Typical Power Distribution Cable Assembly With Optional Extension Cord





LM Series • MIL-DTL-22992 Type Power Connectors

Shell Master Key/Keyway Position

Five master keyway positions are used to discriminate between different power sources such as two wire (DC), two wire single phase (AC), three wire single phase (AC), and four wire three phase (AC). This keying is established during manufacture and cannot be changed.



Front Face of Receptacle

Master Key/Keyway Position

		Alternating Current (AC) 60Hz & 400Hz						Direct Current (DC)		
Shell Current Rating Size (Amps)		Current		1 Phase			3 Pi	lase		
	Rating	2 W	/ire	3 Wire	3 Wire		4 Wire		2 Wire	
	(Amps)	120 VAC	240 VAC	120/240 VAC	450/480 VAC	120/208 VAC	240/416 VAC	277/480 VAC	28 VDC	
28	40	4	5	4	-	4	5	6	Ν	
32	60	4	5	4	-	4	5	6	Ν	
44	100	4	-	4	1	4	5	6	Ν	
52	200	-	-	4	-	4	5	6	Ν	

Selecting Your Alternate Insert Rotation

Alternate insert rotations are used to differentiate connectors sets of incompatible frequencies. However, if different frequencies are not a concern, alternate insert rotations may simply be used to distinguish similar connectors sets.

Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. This rotation is established during manufacture and cannot be changed.

Alternate Insert Rotations

Insert	60 Hz AC or DC		400 Hz AC			
Arrangement	Normal	w	x	Y	z	
28-12	0°	-	-	180°	-	
28-13	0°	-	-	180°	-	
32-04	0°	-	90°	-	-	
32-05	0°	-	90°	-	-	
32-12	0°	-	-	180°	-	
32-13	0°	-	-	180°	-	
44-02	0°	-	-	-	-	
44-03	0°	-	-	-	-	
44-12	0°	-	-	-	60°	
44-13	0°	-	-	-	60°	
44-50	0°	-	-	-	-	
44-51	0°	-	-	-	-	
44-52	0°	-	-	-	-	
44-56	0°	-	-	-	-	
52-12	0°	300°	-	-	-	
52-13	0°	300°	-	-	-	



Looking into front face of pin insert or rear of socket insert.



Insert Arrangement Drawings

LM Series • MIL-DTL-22992 Type Power Connectors

Insert Arrangment Selection

The LM Series is designed to provide safe interconnect solutions for military and industrial applications. The series' strict configuration control ensures maximum protection of personnel and equipment. Shell style, size, and contact type are all matched to specific voltage, current, frequency, phase, and grounding requirements. In addition, the LM Series' insert arrangements specify connector and cable combinations for interconnect reliability. Connector shells are sized according to current carrying capabilities, reducing the possibility of inadequate wiring for heavy electrical loads. ■



Various Power Options Example of a LM09 wall mount plug with a 52-13 insert rated for 200 amps.

Cable

Insert	Cable Type
28-12	IPCEA, type G, round, 4 x #8 conductors
28-13	CO-04 HDF, (4/6-4/12R) 1090 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket
A, B, C	6	CLPP06	CLSS06
N, G	6N	CLPP06N	CLSS06

40 Amp Rating

Shell Size 28



60 Amp Rating

Shell Size 32



32-04, 32-05 Single phase AC, 2 wire, grounding

Cable

Insert	Cable Type
32-04	IPCEA, type G, round, 2 x #6 conductors
32-05	CO-02 HDF, (2/4-2/8R) 1100 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket
Α	4	CLPP04	CLSS04
N	4N	CLPP04N	CLSS04
G1, G2	6N	CLPP06N	CLSS06

60 Amp Rating Shell Size 32



32-12, 32-13 Three phase AC, 4 wire, grounding

Cable

Insert	Cable Type
32-12	IPCEA, type G, round, 4 x #6 conductors
32-13	CO-04 HDF, (4/4-4/12R) 1290 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket
A, B, C	4	CLPP04	CLSS04
Ν	4N	CLPP04N	CLSS04
G	6N	CLPP06N	CLSS06

Contact Legend:





Insert Arrangement Drawings

LM Series • MIL-DTL-22992 Type Power Connectors

Cable

Insert	Cable Type
44-02	IPCEA, type W, round, 2 x #2 conductors
44-03	CO-02 HDF, (2/1) 1385 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket	
Α	1/0-1	CLPP10	CLSS10	
N	1/0N-1	CLPP10N	CLSS10	

Cable

Insert	Cable Type
44-12	IPCEA, type G, round, 4 x #2 conductors
44-13	CO-04 HDF, (4/1-4/8R) 1620 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket		
A, B, C	1/0-1	CLPP10	CLSS10		
N	1/0N-1	CLPP10N	CLSS10		
G1, G2, G3, G4	6G	CLPP06G	CLSS06G		

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44-02, 44-03 28 Volts DC, 2 wire 100 Amp Rating

Shell Size 44 For direct current (DC) application use only



100 Amp Rating Shell Size 44

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100 Amp Rating Shell Size 44

For U.S. Navy ground support equipment use only

44-12, 44-13 Three phase AC, 4 wire, grounding

Cable

Insert	Cable Type
44-50	Available in LM00 & LM09 only, 4 x #1 conductors
44-51	Available in LM06 & LM01 only, type W, round, 4 x #1 conductors
44-52	Available in LM06 only, IPCEA, type W, round, 4 x #2 conductors
44-56	Available in LM06 only, IPCEA, type W, round, 4 x #6 conductors

Contacts

Position	Contact Size	Pin	Socket	
A, B, C,	1/0-1	CLPP10	CLSS10	
G	1/0N-1	CLPP10N	CLSS10	

Cable

Insert	Cable Type
52-12	IPCEA, Type G, round, 4 x #4/0 conductors
52-13	CO-04 HDF, (4/0000-4/4R) 2380 per MIL-C-3432

Contacts

Position	Contact Size	Pin	Socket
A, B, C	4/0	CLPP40	CLSS40
N	4/0N	CLPP40N	CLSS40
G1, G2, G3, G4	4G	CLPP04G	CLSS04G

Contact Legend:

Rev. 1806



44-50, 44-51, 44-52, 44-56 Three phase AC, 3 wire, grounding

200 Amp Rating

Shell Size 52

52-12, 52-13 Three phase AC, 4 wire, grounding



Contact Specifications

LM Series • MIL-DTL-22992 Type Power Connectors

Contacts & Tooling

Contact Size	Contact Style	Part Number	Pneumatic Crimping Tool	Positioner	Die	Extraction Tool
#4/0	Socket	CLSS40				
#4/0	Din	CLPP40	TU2301	TP2316	TD2307	TX2701
#4/ON	FIII	CLPP40N				
#1/0	Socket	CLSS10				
#1/U	D :	CLPP10	TU2301	TP2314	TD2305	TX2703
#1/ON	FIII	CLPP10N				
#Л	Socket	CLSS04			TD2304	
#4	Din	CLPP04		TP2312		
#4N	FIII	CLPP04N	TU2301			TX2705
#40	Socket	CLSS04G				
#40	Pin	CLPP04G				
#6	Socket	CLSS06				
#0	Din	CLPP06			TD2303	
#6N	FIII	CLPP06N	TU2301	TP2310		TX2706
#6 C	Socket	CLSS06G				
#0G	Pin	CLPP06G				

Contact Dimensions

Contact Size	Part Number	Contact Style	Wire Well Size	Ľ	S	D Dia	т	U Dia	G Dia	H Dia	L ²	P
#4/0	CLSS40	Socket	_	2 202 (60 0)	1 202 (22 6)					—	2 207 /01 E)	2 007 (52 2)
#4/0	CLPP40	Dia	4/0	2.393 (00.0)	1.203 (32.0)	.781 (19.8)	.750 (19.1)	.750 (19.1)	.641 (16.3)	E00 (10 7)	3.207 (01.3)	2.097 (00.0)
#4/ON	CLPP40N	PIII		—	—					.500 (12.7)	3.325 (84.5)	2.215 (56.3)
#1 /0	CLSS10	Socket	_	2 202 (60 0)	1 202 (22 6)					—	2 207 (01 E)	2,007 (52,2)
#1/0	CLPP10	1	2.393 (00.8)	1.283 (32.0)	.609 (15.5)	.750 (19.1)	.506 (12.9)	.406 (10.3)		3.207 (81.5)	2.097 (53.3)	
#1/ON	CLPP10N	PIII		—	—					.337 (9.1)	3.325 (84.5)	2.215 (56.3)
44	CLSS04	Socket	_	2.206 (56.0)	1.158 (29.4)	.417 (10.6)	.750 (19.1) .37	.374 (9.5)	.281 (7.1)	—	2 205 (20 0)	1 700 (44 0)
#4	CLPP04	Din	4							.225 (5.7) —	2.700 (70.0)	1.738 (44.2)
#4N	CLPP04N	PIII		—	—						2.904 (73.8)	1.856 (47.1)
#40	CLSS04G	Socket	— 4 2.862 (72.7) 1.752 (44.5) .417 (10.6) .750 (19.1) .374 (9.5	0.000 /70 7\	1 750 / 44 5	447 (40.0)	750 (40.4)	074 (0 5)	001 /7 1)	—	2 9EC (72 E)	1 746 (44 4)
#40	CLPP04G	Pin		.374 (9.3)	4 (5.5) .201 (7.1)	.225 (5.7)	2.000 (72.3)	1.740 (44.4)				
#6	CLSS06	Socket	_	2 206 (EC 0)	1 150 (20 4)				.234 (5.9)	—	0 700 (70 0)	1 700 (44 0)
#0	CLPP06	Din	6	2.200 (30.0)	1.136 (29.4)	.342 (8.7)	.750 (19.1)	.312 (7.9)		170 (4 5)	2.780 (70.8)	1.738 (44.2)
#6N	CLPP06N	PIII		—	—					.178 (4.3)	2.904 (73.8)	1.856 (47.1)
#60	CLSS06G	Socket		7 067 /77 7)	1 752 (44 5)	242 (9 7)	750 /10 1)	212 /7 0)	224 /5 0)	_	2 956 /72 5)	1 746 (44 4)
#06	CLPP06G	Pin	0	2.002 (72.7)	1.752 (44.5)	.342 (8.7)	./50 (19.1)	.312 (7.9)	.234 (5.9)	.178 (4.5)	2.000 (72.3)	1.746 (44.4)

Dimensions are in inches (mm).



Socket Contact



Pin Contact

Rev. 1806



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LM Series • MIL-DTL-22992 Type Power Connectors

Current Rating By Contact & Shell Size

Shell	Contact Size					
Size	#6	#4	#1/0	#4/0		
28	40A					
32		60A				
44			100A			
52				200A		

Cable & Wire Jacket Strip Lengths

Shell Size	A Cable Jacket	Contact Size	B Wire Jacket Strip Length
	Strip Length	#6	.750 (19.1)
28	3.00 (76.2)	#4	.750 (19.1)
32	3.00 (76.2)	#1/0	.750 (19.1)
44	4.25 (108.0)	#2/0	.750 (19.1)
52	5.00 (127.0)	#4/0	.750 (19.1)

Dimensions are in inches (mm) unless otherwise noted.



Contact Reducing Bushings

Bushing Part Number	Contact Size	Wire Size	M Inner Dia	G Outer Dia	L Length
CRB6-10	#6	#10	.136 (3.5)	.225 (5.7)	.700 (17.8)
CRB6-9	#6	#9	.155 (3.9)	.225 (5.7)	.700 (17.8)
CRB6-8	#6	#8	.185 (4.7)	.225 (5.7)	.700 (17.8)
CRB4-8	#4	#8	.185 (4.7)	.272 (6.9)	.700 (17.8)
CRB4-6	#4	#6	.225 (5.7)	.272 (6.9)	.700 (17.8)
CRB4-5	#4	#5	.250 (6.6)	.272 (6.9)	.700 (17.8)
CRB1-6	#1	#6	.225 (5.7)	.396 (10.1)	.700 (17.8)
CRB1-2	#1	#2	.359 (9.1)	.396 (10.1)	.700 (17.8)
CRB0-2	#4/0	#2/0	.500 (12.7)	.629 (16.0)	.700 (17.8)

Contact reducing bushings are required when crimping a smaller wire than the contact is designed for. Dimensions are in inches (mm) unless otherwise noted.





Contact Reducing Bushing

Standardized Generator Wiring & Connections

Current	Generator Terminal	Contact	Conductor	International P	International Phase Color Coding		
	Mark	Designation	Circuit	USA	European Union		
DC	+ (POS) Positive	А	Positive	Black	Black		
DC	– (NEG) Ground	Ν	Negative	White	White		
AC	L,	А	Phase A	Black	Brown		
	L ₂	В	Phase B	Red	Black		
	L3	С	Phase C	Blue	Gray		
	L _o	Ν	Neutral	White	Blue		
	G (or GND)	G	Safety Grounding	Green	Green/Yellow		

This wiring guide is only meant to serve as a reference. Always consult local and national wiring code before installing.

Coupling Torque Values

Thread Size	Torque Foot Pounds (Newton Meters)				
	Min	Мах			
2.000	38 (51.5)	42 (56.9)			
2.250	44 (59.7)	48 (65.1)			
3.000	65 (88.1)	70 (94.9)			
3.500	70 (94.9)	75 (101.7)			

Contact Engagement & Separation Forces

Contact	F	orce
Size	Maximum	Minimum
#6	10 lbs (4.4 kg)	.75 lbs (.3 kg)
#4	15 lbs (6.7 kg)	1.00 lbs (.4 kg)
#1/0	20 lbs (8.9 kg)	2.00 lbs (.9 kg)
#2/0	20 lbs (8.9 kg)	2.00 lbs (.9 kg)
#4/0	20 lbs (8.9 kg)	2.00 lbs (.9 kg)

Rev. 1806

Test Current For Arc Rupture

Contact Size	Rated Current AC	Test Current AC
#6	40A	60A
#4	60A	90A
#1/0	100A	150A
#2/0	150A	225A
#4/0	200A	300A

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

Contact Retention Loads

Contact Size	Minimum Axial Load
#6	20 lbs (8.9 kg)
#4	25 lbs (11.1 kg)
#1/0	35 lbs (15.6 kg)
#2/0	35 lbs (15.6 kg)
#4/0	35 lbs (15.6 kg)

Cable Pull-Out Test Loads

Weight of	Minimum Required Pull-Out Force					
Cable per 1,000 ft (304.08 m)	Without Cable Grip	With Cable Grip				
Up to 350 lbs (155.5 kg)	50 lbs (22.2 kg)	75 lbs (33.3 kg)				
351–725 lbs (156.0-322.1 kg)	75 lbs (33.3 kg)	150 lbs (66.7 kg)				
726–1,000 lbs (322.7-444.6 kg)	100 lbs (44.4 kg)	200 lbs (88.9 kg)				
Over 1,000 lbs (444.4 kg)	125 lbs (55.5 kg)	250 lbs (111.1 kg)				



Installation Instructions

LM Series • MIL-DTL-22992 Type Power Connectors

Contact Installation

Step 1 - Find the proper strip length for your cable jacket and individual wires, see the Contact Specifications on p. P-11.

Step 2 - Make a clean cut at the end of the wire to be terminated and strip the insulation to the correct length. After stripping the wire insulator, clean the exposed conductor with a swab of alcohol to remove any impurities.

Step 3 - Insert stripped conductors in contact wire wells. If contact bushing is used, insert conductor in bushing and bushing in contact wire well. Conductors should be visible through inspection hole on the side of the wire well. When crimping pin contacts, remember that the longer pin is for the neutral wire

Step 4 - Select the correct crimping tool, locator, and die from the table on p. P-10 for the contacts being installed. Follow the manufacturer's set-up and calibration instructions. With conductor or contact bushing in place, insert contact into tool. Close crimping die fully to create a uniform crimp.

Step 4 - Inspect crimp and ensure that the conductor is visible through the contact inspection hole. If no conductor is visible, the wire may require re-crimping with a new contact.

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Connector Assembly

Step 1 - Insert terminated contacts into correct cavities of the grommet until the locking clips engage. A thin coating of grease may be applied to the edges of the contact holes to aid in assembly and to provide maximum sealing efficiency. After contact installation, pull on the wires to ensure contacts are locked in clips.

Step 2 - Align the cavities of the insert with the grommet. Then place the insert over the contacts and press until the insert and rear grommet come together.

Step 3 - Align the key on the insert with the keyway in the connector shell, then slide insert assembly into the shell until it bottoms out.

Step 4 - Assemble the connector accessories. A thin film of grease should be applied to the O-ring on the backshell and to the <u>outside</u> of the sealing gland to improve sealing. Avoid grease on the inside surface of the gland and on the cable jacket, as this will reduce the effective grip of gland on cable.

Step 5 - Thread retaining nut onto connector shell and tighten. A metal to metal seating condition is ideal, but it may not be attainable depending on maximum cable diameter.

Contact Removal

Step 1 - Loosen all rear accessories and slide them back along the cable.

Step 2 - Remove spacer or grommet assembly with contacts from connector insert.

Step 3 - Using the appropriate size contact removal tool from the table on p. P-10, push tool over the front of the contact to be removed until the tool bottoms in the spacer or grommet assembly hole. This will open the contact retaining clip and allow the contact to be removed from the spacer or grommet assembly from the rear. When using jacketed cable, all contacts should be released from their contact retention clips before removal from the spacer or grommet assembly.

Solder Termination

While crimping is the preferred contact termination, if crimping tools are unavailable, contacts may be solder terminated using rosin-alcohol solder flux, 60/40 grade solder, and a 500 watt soldering iron or probe type resistance soldering equipment. Be sure to pre-tin conductors before soldering. Solder cannot be present on shoulder of retention area of contact. ■





Installation Instructions

LM Series • MIL-DTL-22992 Type Power Connectors



LM06 Cable Mount Plug Retaining Nut Contact Cable Grip Grommet Sealing Gland Insert Gland Washer Shell

Backshell

MILNEC.COM

LM00 Wall Mount Receptacle

10

Cover



LM01 Cable Mount Receptacle







Rev. 1806



Insert

Shell

Cover

MS90556 Connector Type Datasheet

LM Series • MIL-DTL-22992 Type Power Connectors



LM06 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-22992 Class L	MS90556	MS90555, MS90557
Cooper Interconnect	GCL56	GCL55, GCL57
Robert Technologies	RT90556	RT90555, RT90557
UEC	UEC90556	UEC90555, UEC90557

LM06 C 44-12 4 N

0	BASIC PAP	RT NUMBER
T	LM06	Cable mount plug
		Pin contacts (equipment end)
		Includes backshell, cable grip, cover
2	MATERIAL	& FINISH
T	С	Aluminum, olive drab cadmium
		(Conductive for AC applications)
	Ν	Aluminum, anodized finish
		(Non-conductive for DC applications)
3	SHELL SIZ	E & INSERT PATTERN
Ī	See Ins	ert Arrangement Drawings, p. P-8
4	MASTER K	EYWAY POSITION
T	Power r	requirements determine master key/keyway
	(See Ma	aster Key/Keyway Position table, p. P-7)
5	ALTERNAT	E ROTATION
-	Ν	NORMAL or W, X, Y, Z, see p. P-7 for availability

A

Note: See part builder (p. P-6) for complete information.

Plug Dimensions

Shell Size	n	C Thread		т	м	ш	CC Cable Clearance		
Arrangement	D	Class 2B	L	I	IVI	U	Min	Max	
28-12	2 420 (62 0)	2 000 14200 20571	0 100 (200 0)	7.188 (182.6)	2 212 (50 7)	2 000 (50 9)	.922 (23.4)	1.047 (26.6)	
28-13	2.439 (02.0)	2.0001420F2037L	0.100 (200.0)	7.188 (182.6)	2.312 (30.7)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)	
32-04				7.188 (182.6)			.844 (21.4)	.969 (24.6)	
32-05, 32-12	2.689 (68.3)	2.2501428P2857L	8.188 (208.0)	7.188 (182.6)	2.562 (65.1)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)	
32-13				8.688 (220.7)			1.217 (30.9)	1.342 (34.1)	
44-02			- 10.172 (258.4) -	10.688 (271.5)			1.187 (30.1)	1.312 (33.3)	
44-03	2 667 (02 1)			9.688 (246.1)	0 501 (00 7)	2 500 (62 5)	1.313 (33.4)	1.438 (36.5)	
44-12	3.007 (93.1)	3.0001420F2037L		10.688 (271.5)	3.331 (09.7)	2.500 (03.5)	1.391 (35.3)	1.516 (38.5)	
44-13				12.688 (322.3)			1.547 (39.2)	1.672 (42.5)	
44-51				11.688 (296.9)			1.609 (40.9)	1.734 (44.0)	
44-52	3.667 (93.1)	67 (93.1) 3.0001428P2857L	10.172 (258.4)	11.188 (284.2)	3.531 (89.7)	2.500 (63.5)	1.435 (36.4)	1.525 (38.7)	
44-56	5			7.188 (182.6)			1.065 (27.1)	1.135 (28.8)	
52-12	4 167 (105 9)	2 500 14200 20571	11.109 (282.2)	17.188 (436.6)	4.016 (102.0)	2 250 (02 6)	2.183 (55.4)	2.328 (59.1)	
52-13	4.167 (105.8)	3.3001428P2857L		18.188 (462.0)	4.016 (102.0)	3.250 (82.6)	2.308 (58.6)	2.453 (62.3)	

Dimensions are in inches (mm).





MS90558 Connector Type Datasheet

LM Series • MIL-DTL-22992 Type Power Connectors

LM09 C 44-12 4 N

4-5 2 -3 **BASIC PART NUMBER** LM09 Wall mount plug Pin contacts (equipment end) Includes backshell, gasket, cover **MATERIAL & FINISH** 2 С Aluminum, olive drab cadmium (Conductive for AC applications) Ν Aluminum, anodized finish (Non-conductive for DC applications) **SHELL SIZE & INSERT PATTERN** See Insert Arrangement Drawings, p. P-8 MASTER KEYWAY POSITION Power requirements determine master key/keyway (See Master Key/Keyway Position table, p. P-7) **ALTERNATE ROTATION** Ν NORMAL or W, X, Y, Z, see p. P-7 for availability

Note: See part builder (p. P-6) for complete information.



LM09 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-22992 Class L	MS90558	MS90557
Cooper Interconnect	GCL58	GCL57
Robert Technologies	RT90558	RT90557
UEC	UEC90558	UEC90557

Plug Dimensions

Shell Size	w	z	C Thread Class 2B	R	F	D	т	U	G	S	н
28	2.375 (60.3)	.177 (4.5)	2.0001428P2857L	2.639 (67.0)	.312 (7.9)	2.312 (58.7)	.959 (24.4)	2.000 (50.8)	1.938 (49.2)	1.844 (46.8)	1.976 (50.2)
32	2.625 (66.7)	.209 (5.3)	2.2501428P2857L	2.639 (67.0)	.312 (7.9)	2.562 (65.1)	.959 (24.4)	2.250 (57.2)	2.188 (55.6)	2.062 (52.4)	2.228 (56.6)
44	3.375 (85.7)	.281 (7.1)	3.0001428P2857L	2.998 (76.1)	.312 (7.9)	3.531 (89.7)	1.021 (25.9)	3.125 (79.4)	3.062 (77.8)	2.812 (71.4)	3.102 (78.8)
52	3.875 (98.4)	.281 (7.1)	3.5001428P2857L	2.998 (76.1)	.312 (7.9)	4.016 (102.0)	1.021 (25.9)	3.625 (92.1)	3.562 (90.5)	3.156 (80.2)	3.602 (91.5)
32 44 52	2.625 (66.7) 3.375 (85.7) 3.875 (98.4)	.209 (5.3) .281 (7.1) .281 (7.1)	2.2501428P2857L 3.0001428P2857L 3.5001428P2857L	2.639 (67.0) 2.998 (76.1) 2.998 (76.1)	.312 (7.9) .312 (7.9) .312 (7.9)	2.562 (65.1) 3.531 (89.7) 4.016 (102.0)	.959 (24.4) 1.021 (25.9) 1.021 (25.9)	2.250 (57.2) 3.125 (79.4) 3.625 (92.1)	2.188 (55.6) 3.062 (77.8) 3.562 (90.5)	2.062 (52.4) 2.812 (71.4) 3.156 (80.2)	2 3 3

Dimensions are in inches (mm).







Panel Cut-Out



MS90555 Connector Type Datasheet

LM Series • MIL-DTL-22992 Type Power Connectors



LM00 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-22992 Class L	MS90555	MS90556
Cooper Interconnect	GCL55	GCL56
Robert Technologies	RT90555	RT90556
UEC	UEC90555	UEC90556

LM00 C 44-12 4 N

6

1

1	BASIC PAR	RT NUMBER
T	LM00	Wall mount receptacle
		Socket contacts (power source)
		Includes backshell, gasket, cover
	MATERIAL	. & FINISH
	С	Aluminum, olive drab cadmium
		(Conductive for AC applications)
	N	Aluminum, anodized finish
		(Non-conductive for DC applications)
	SHELL SIZ	E & INSERT PATTERN
	See Ins	ert Arrangement Drawings, p. P-8
	MASTER #	EYWAY POSITION
	Power	requirements determine master key/keyway
	(See M	aster Key/Keyway Position table, p. P-7)
	ALTERNA	E ROTATION
	Ν	NORMAL or W, X, Y, Z, see p. P-7 for availability
• •		

G

Note: See part builder (p. P-6) for complete information.

Receptacle Dimensions

Shell Size	w	Z	C Thread Class 2A	L	F	т	U	G	S	н
28	2.375 (60.3)	.177 (4.5)	2.0001428P2857L	3.564 (90.6)	.312 (7.9)	1.376 (35.0)	2.000 (50.8)	1.938 (49.2)	1.844 (46.8)	1.976 (50.2)
32	2.625 (66.7)	.209 (5.3)	2.2501428P2857L	3.564 (90.6)	.312 (7.9)	1.376 (35.0)	2.250 (57.2)	2.188 (55.6)	2.062 (52.4)	2.228 (56.6)
44	3.375 (85.7)	.281 (7.1)	3.0001428P2857L	3.970 (100.8)	.312 (7.9)	1.438 (36.5)	3.125 (79.4)	3.062 (77.8)	2.812 (71.4)	3.102 (78.8)
52	3.875 (98.4)	.281 (7.1)	3.5001428P2857L	3.970 (100.8)	.312 (7.9)	1.438 (36.5)	3.625 (92.1)	3.562 (90.5)	3.156 (80.2)	3.602 (91.5)

Dimensions are in inches (mm).







Panel Cut-Out

MS90557 Connector Type Datasheet

LM Series • MIL-DTL-22992 Type Power Connectors

LM01 C 44-12 4 N

\langle		3-4-5						
Ó	BASIC PAP	RT NUMBER						
T	LM01	Cable mount receptacle						
		Socket contacts (power source)						
		Includes backshell, cable grip, gland, cover						
2	MATERIAL	& FINISH						
	C	Aluminum, olive drab cadmium						
		(Conductive for AC applications)						
	Ν	Aluminum, anodized finish						
		(Non-conductive for DC applications)						
3	SHELL SIZ	E & INSERT PATTERN						
	See Ins	ert Arrangement Drawings, p. P-8						
4	MASTER K	EYWAY POSITION						
	Power requirements determines master key/keyway							
	(See Ma	aster Key/Keyway Position table, p. P-7						
5	ALTERNA	E ROTATION						
	Ν	NORMAL or W, X, Y, Z, see p. P-7 for availability						

Note: See part builder (p. P-6) for complete information.



LM01 Cross Reference & Compatibility

Compatible Brands	Equivalent	Mates
MIL-DTL-22992 Class L	MS90557	MS90556, MS90558
Cooper Interconnect	GCL57	GCL56, GCL58
Robert Technologies	RT90557	RT90556, RT90558
UEC	UEC90557	UEC90556, UEC90558

Receptacle Dimensions

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necepta		7113					
Shell	D	c Thread		-		CC Cable Clearance	
Size	U	Class 2B	L	1	U	Min	Max
28-12	2 420 (62 0)	2 000 1420D 2057L	0.150 (207.2)	7.188 (182.6)	2 000 (E0.0)	.922 (23.4)	1.047 (26.6)
28-13	2.439 (02.0)	2.0001428P2837L	8.130 (207.2)	7.188 (182.6)	2.000 (30.8)	1.005 (25.5)	1.130 (28.7)
32-04				7.188 (182.6)		.844 (21.4)	.969 (24.6)
32-05, 32-12	2.689 (68.3)	2.2501428P2857L 8.156 (207.2	8.156 (207.2)	7.188 (182.6)	2.000 (50.8)	1.005 (25.5)	1.130 (28.7)
32-13				8.688 (220.7)		1.217 (30.9)	1.342 (34.1)
44-02				10.688 (271.5)		1.187 (30.1)	1.312 (33.3)
44-03			9.688 (246.1)	_	1.313 (33.4)	1.438 (36.5)	
44-12	3.667 (93.1)	3.0001428P2857L	10.125 (257.2)	10.688 (271.5)	2.500 (63.5)	1.391 (35.3)	1.516 (38.5)
44-13				12.688 (322.3)	_	1.547 (39.2)	1.672 (42.5)
44-51				11.688 (296.9)	-	1.609 (40.9)	1.734 (44.0)
52-12	4 167 (105.0)	2 E00 1420D 20E7I	11.062 (201.0)	17.188 (436.6)	2 250 (02 6)	2.183 (55.4)	2.328 (59.1)
52-13	4.107 (105.8)	3.5001428P2857L	11.062 (281.0)	18.188 (462.0)	3.250 (82.6)	2.308 (58.6)	2.453 (62.3)

.

Dimensions are in inches (mm).





Protective Covers

LM Series • MIL-DTL-22992 Type Power Connectors



• - 44 C
PART NUMBER
Plug cover
Receptacle cover
SIZE
Protective Cover Dimensions table below
IAL & FINISH
Aluminum, olive drab cadmium
(Conductive for AC applications)
Aluminum, anodized finish
(Non-conductive for DC applications)

Note: See part builder (p. P-6) for additional kit options.

LMCP & LMCR Compatibility

Compatible Brands	Plugs	Receptacles
MIL-DTL-22992 Class L	MS90556, MS90558	MS90555, MS90557
Cooper Interconnect	GCL56, GCL58	GCL55, GCL57
Robert Technologies	RT90556, RT90558	RT90555, RT90557
UEC	UEC90556, UEC90558	UEC90555, UEC90557

Protective Cover Dimensions

28 2 000- 1428P- 2857/ 2 266 (57.6) 177 (4.5) 7 500 (190.5) 2 000- 1428P- 2857/ 969 (24.6) 6 000 (152.4)	
32 2.2501428P2857L 2.266 (57.6) .209 (5.3) 6.000 (152.4) 2.2501428P2857L .969 (24.6) 4.500 (114.3)	
44 3.0001428P2857L 2.484 (63.1) .281 (7.1) 8.500 (215.9) 3.0001428P2857L .969 (24.6) 7.500 (190.5)	
52 3.5001428P2857L 2.484 (63.1) .281 (7.1) 8.500 (215.9) 3.5001428P2857L .969 (24.6) 7.500 (190.5)	

Dimensions are in inches (mm).







Receptacle Cover



Mounting Gasket

LM Series • MIL-DTL-22992 Type Power Connectors

LMGE - 44

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BASIC PART NUMBER LMGE Standard gasket SHELL SIZE See Gasket Dimensions table below

2

Note: See part builder (p. P-6) for additional kit options.



LMGE Compatibility

Compatible Brands	Plugs	Receptacles
MIL-DTL-22992 Class L	MS90558	MS90555
Cooper Interconnect	GCL58	GCL55
Robert Technologies	RT90558	RT90555
UEC	UEC90558	UEC90555

Gasket Dimensions

Shell Size	w	S	Z	Н	F
28	2.375 (60.3)	1.844 (46.8)	.177 (4.5)	1.976 (50.2)	.031 (.8)
32	2.625 (66.7)	2.062 (52.4)	.209 (5.3)	2.228 (56.6)	.031 (.8)
44	3.375 (85.7)	2.812 (71.4)	.281 (7.1)	3.102 (78.8)	.031 (.8)
52	3.875 (98.4)	3.156 (80.2)	.281 (7.1)	3.602 (91.5)	.031 (.8)

Dimensions are in inches (mm).







MILNEC.COM



Rev. 1112.1

LM Series • MIL-DTL-22992 Type Power Connectors



Cable Grip & Sealing Glands

Replacement wire mesh grips are designed to prevent strain from being transmitted to cables. Stainless steel wire and multi-weave grip design provides arc-of-bend control, minimizing cable damage and extending cable life for critical military and heavy duty applications where cable is subjected to vibration and harsh environments. Cable grips are individually matched with appropriate cable glands for each insert pattern based on the recommended IPCEA round cable and per MIL-DTL-3432 cable specifications referenced on the Insert Arrangement selection charts on pages P-8 and P-9.

Cable Grip & Sealing Glands

				Cable	e Grip			Sealing	g Gland	d	
Cable Grip Part Number	Sealing Gland Part Number	Insert Arrangement	CC Dia Cable Clearance	e Clearance	14/			ц	12	Min Cable	
		· · · · · · · · · · · · · · · · · · ·	Min	Max	vv	Ľ	U	п	Ľ	Clearance	
LMWG-12	LMSG-12	28-12	.891 (22.6)	1.047 (26.6)	1.797 (45.6)	8.000 (203.2)	1.805 (45.8)	1.047 (26.6)	1.034 (26.3)	.922 (23.4)	
LMWG-2	LMSG-2	28-13	1.003 (25.5)	1.145 (29.1)	1.797 (45.6)	8.000 (203.2)	1.805 (45.9)	1.130 (28.7)	1.034 (26.3)	1.005 (25.5)	
LMWG-1	LMSG-1	32-04	.832 (21.1)	.969 (24.6)	1.797 (45.6)	8.000 (203.2)	1.805 (45.8)	.969 (24.6)	1.034 (26.3)	.844 (21.4)	
LMWG-2	LMSG-2	32-05	1.003 (25.5)	1.145 (29.1)	1.797 (45.6)	8.000 (203.2)	1.805 (45.9)	1.130 (28.7)	1.034 (26.3)	1.005 (25.5)	
LMWG-2	LMSG-2	32-12	1.003 (25.5)	1.145 (29.1)	1.797 (45.6)	8.000 (203.2)	1.805 (45.9)	1.130 (28.7)	1.034 (26.3)	1.005 (25.5)	
LMWG-13	LMSG-13	32-13	1.185 (30.1)	1.342 (34.1)	1.797 (45.6)	9.500 (241.3)	1.805 (45.9)	1.342 (34.1)	1.034 (26.3)	1.217 (30.9)	
LMWG-5	LMSG-5	44-02	1.156 (29.4)	1.312 (33.3)	2.235 (56.8)	11.500 (292.1)	2.242 (57.0)	1.312 (33.3)	1.160 (29.5)	1.187 (30.1)	
LMWG-14	LMSG-14	44-03	1.282 (32.6)	1.438 (36.5)	2.235 (56.8)	10.500 (266.7)	2.242 (57.0)	1.438 (36.5)	1.160 (29.5)	1.313 (33.4)	
LMWG-15	LMSG-15	44-12	1.360 (34.5)	1.516 (38.5)	2.235 (56.8)	11.500 (292.1)	2.242 (57.0)	1.516 (38.5)	1.160 (29.5)	1.391 (35.3)	
LMWG-16	LMSG-16	44-13	1.531 (38.9)	1.688 (42.9)	2.235 (56.8)	13.500 (342.9)	2.242 (57.0)	1.627 (41.3)	1.160 (29.5)	1.547 (39.3)	
LMWG-19	LMSG-20	44-51	1.550 (39.4)	1.750 (44.5)	2.235 (56.8)	12.500 (317.5)	2.242 (57.0)	1.734 (44.0)	1.160 (29.5)	1.609 (40.9)	
LMWG-20	LMSG-21	44-52	1.375 (34.9)	1.578 (40.1)	2.235 (56.8)	12.000 (304.8)	2.242 (57.0)	1.562 (39.7)	1.160 (29.5)	1.437 (36.5)	
LMWG-21	LMSG-22	44-56	1.010 (25.7)	1.160 (29.5)	2.235 (56.8)	8.000 (203.2)	2.242 (57.0)	1.150 (29.2)	1.160 (29.5)	1.025 (26.0)	
LMWG-17	LMSG-18	52-12	2.039 (51.8)	2.328 (59.1)	2.922 (74.2)	18.000 (457.2)	2.927 (74.4)	2.328 (59.1)	1.284 (32.6)	2.183 (55.5)	
LMWG-18	LMSG-19	52-13	2.211 (56.2)	2.500 (63.5)	2.235 (56.8)	19.000 (482.6)	2.927 (74.4)	2.453 (62.3)	1.284 (32.6)	2.308 (58.6)	

Dimensions are in inches (mm).

Note: 44-50 insert arrangement is only available in LM00 and LM09.

Cable Strain Relief









Cable Sealing Gland

Rev. 1112.1

