Class L PowerConnectors

MIL-DTL-22992 Qualified

COOPER Interconnect

For high-power military and industrial applications in the harshest environments, Cooper Interconnect's high-current, heavy-duty Class "L" connectors are designed to provide reliable and safe operation in a rugged, durable package.

Our QPL certified 60 Amp and 100 Amp configurations provide unfailing power solutions, while the sequenced mating and arc-quenching design ensures handler safety.

The robust shell offers superior crush and impact resistance, even under the most extreme conditions.

Features & Benefits

- **Popular Configurations**. Support the most common applications:
  60 Amp - Shell size 32
  100 Amp - Shell size 44
- **Weather Resistant**. Heavy-duty O-rings and gaskets for weatherproof connection in all conditions. Cadmium, olive drab over nickel finish resists corrosion.
- **Durable Construction**. High-strength aluminum alloy maximizes shell strength, resists shock, vibration, and impact damage.
- **Safe**. Sequenced contact mating, arc-quenching design and keyways ensure safe handling, even under load.

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An ISO 9001:2000 Company

Class L Power Connectors

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Ordering Information - Part Numbering System

GC L uu C vv w xx y z

Item	Description/Values
Alternate Position	
Contact Type	P = Pin (male), S = Socket (female)
Insert Arrangement	(see table)
Keyway Position	N = Normal, 1 = 60°, 4 = 120°, 5 = 125° , 6 = 150° (see table)
Shell Size	32 = 60 amps, 44 = 100 amps (the larger the number, the larger the shell and handles more current)
Shell Finish	C = Conductive (AC circuits)
Mounting Type	55 = Panel receptacle (power source), 56 = cable straight plug, 58 = Panel plug with coupling ring (equipment end), 57 = cable receptacle without coupling ring
Class	L = Arc quenching
Prefix	GC = General Connector

ORDERING NUMBERS						
CI PART NUMBER	MIL SPEC NUMBER	MOUNTING TYPE	SHELL SIZE	MAX. AMPS	INSERT PATTERN	CONTACT TYPE
GCL55C32404S	MS90555C32404S	panel receptacle (power source)	32	60 amps	4	socket (female)
GCL55C32405S	MS90555C32405S				5	
GCL55C32412S	MS90555C32412S				12	
GCL55C32413P	MS90555C32413P				13	
GCL56C32404P	MS90556C32404P	cable straight plug			4	pin (male)
GCL56C32405P	MS90556C32405P				5	
GCL56C32412P	MS90556C32412P				12	
GCL56C32413P	MS90556C32413P				13	
GCL57C32404S	MS90557C32404S	cable receptacle without coupling ring			4	socket (female)
GCL57C32405S	MS90557C32405S				5	
GCL57C32412S	MS90557C32412S				12	
GCL57C32413S	MS90557C32413S				13	
GCL58C32404P	MS90558C32404P	panel plug with coupling ring (equipment end)			4	pin (male)
GCL58C32405P	MS90558C32405P				5	
GCL58C32412P	MS90558C32412P				12	
GCL58C32413P	MS90558C32413P				13	
GCL55C44412S	MS90555C44412S	panel receptacle (power source)	44	100 amps	12	socket (female)
GCL55C44413S	MS90555C44413S				13	
GCL56C44412P	MS90556C44412P	cable straight plug			12	pin (male)
GCL56C44413P	MS90556C44413P				13	
GCL57C44412S	MS90557C44412S	cable receptacle without coupling ring			12	socket (female)
GCL57C44413S	MS90557C44413S				13	
GCL58C44412P	MS90558C44412P	panel plug with coupling ring (equipment end)			12	pin (male)
GCL58C44413P	MS90558C44413P				13	

Grounding Assembly

SHELL MASTER KEY/KEYWAY POSITION						
60Hz and 400Hz						
1 Phase			3 Phase			
2 Wire		3 Wire	3 Wire	4 Wire		
120 VAC	240 VAC	120/240 VAC	450/480 VAC	120/208 VAC	240/416 VAC	277/480 VAC
4 (1200)	5 (1350)	4 (1200)	—	4 (1200)	5 (1350)	6 (1500)

Non-Grounding Assembly

SHELL MASTER/KEY KEYWAY POSITION
DC
2 Wire
28 VDC
N (1050)

Insert Arrangements

SIZE	ARRANGEMENT CODE	KEYING POSITION	
		DC or 60 Hz Normal	400 Hz/ Position
32	04	0	90°/Y
	05		
	12		180°/Y
	13		
44	12		60° /Z
	13		

Alternate insert arrangements available.
Contact manufacturer.

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