



WS – Welding Connectors

General Ratings

- **Voltage**
50 VAC Max
- **Amperage**
325A Continuous
500A Intermittent
- **Cable Size**
250 MCM

WS devices allow users to make fast and reliable connections of welding cables. Their spring-loaded silver contacts provide connections that are unaffected by cable movement or vibration and operate with a self-cleaning wiping action that ensures a reliable electrical connection every time.

Wiring Hole Diameter		Maximum Amperage Cycle (5 min Cycle)		
inches	mm	30% Duty	60% Duty	100% Duty
.25"	6.3	150A	100A	75A
.32"	8.1	200A	125A	100A
.36"	9.1	250A	150A	125A
.43"	10.9	300A	200A	150A
.50"	12.7	350A	250A	200A
.58"	14.7	400A	300A	250A
.62"	15.7	450A	350A	275A
.72"	18.3	500A	450A	325A

Notes: The chart to the right is a guideline for wiring sizes based on duty cycles.

Receptacle (female) Lug Type Connection



Wiring Hole Diameters (in) (mm)	Type 2 200A	Type 3 300A	Type 5 500A
.25" 6.3	4-2401-A	-	-
.32" 8.1	4-2401-B	-	-
.36" 9.1	4-2401-C	-	-
.43" 10.9	4-2401-D	4-3401-E	-
.50" 12.7	-	4-3401-F	-
.58" 14.7	-	4-3401-G	-
.62" 15.7	-	-	4-5401-H
.72" 18.3	-	-	4-5401-J

Inlet (male) Lug Type Connection



Wiring Hole Diameters (in) (mm)	Type 2 200A	Type 3 300A	Type 5 500A
.25" 6.3	4-2901-A	-	-
.32" 8.1	4-2901-B	-	-
.36" 9.1	4-2901-C	-	-
.43" 10.9	4-2901-D	4-3901-E	-
.50" 12.7	-	4-3901-F	-
.58" 14.7	-	4-3901-G	-
.62" 15.7	-	-	4-5901-H
.72" 18.3	-	-	4-5901-J

Connector (female) Crimp / Solder Connection



Wiring Hole Diameters (in) (mm)	Type 2 200A	Type 3 300A	Type 5 500A
.25" 6.3	4-2301-A	-	-
.32" 8.1	4-2301-B	-	-
.36" 9.1	4-2301-C	-	-
.43" 10.9	4-2301-D	4-3301-E	-
.50" 12.7	-	4-3301-F	-
.58" 14.7	-	4-3301-G	-
.62" 15.7	-	-	4-5301-H
.72" 18.3	-	-	4-5301-J

Plug (male) Crimp / Solder Connection



Wiring Hole Diameters (in) (mm)	Type 2 200A	Type 3 300A	Type 5 500A
.25" 6.3	4-0201-A	-	-
.32" 8.1	4-0201-B	-	-
.36" 9.1	4-0201-C	-	-
.43" 10.9	4-0201-D	4-0301-E	-
.50" 12.7	-	4-0301-F	-
.58" 14.7	-	4-0301-G	-
.62" 15.7	-	-	4-0501-H
.72" 18.3	-	-	4-0501-J

The periodic charging of batteries for many applications (including electric boats and material handling vehicles) requires frequent connector operations. In order to avoid current interrupting on the charging contacts, a pilot contact is generally used. The pilot contact is designed to break before the main contacts, thereby signalling the circuit breaker to function.

Meltric's LC battery connectors, are made with spring-loaded, silver-nickel butt style contacts, which are operated by means of a lever. This design ensures a superior electrical connection and the quick and easy operation of the device. The lever also provides a means of locking the units together to help prevent accidental disengagement. By contrast, many competitive battery charger connectors use sliding contacts. Because of how they operate, sliding contacts cannot provide the electrical performance, the durability or the quick breaking capabilities of Meltric's lever operated and spring-loaded, silver-nickel butt contacts.

General Ratings

- **Voltage**
50 to 500 VDC Max
- **Current Interruption Capability**
Not for current interrupting
- **Amperage**
75A - 200A
- **Cable Termination**
Crimp/Solder
- **Contact Pressure**
19.8 lbs Min, 22.0 lbs Max
- **Contact Voltage Drop**
3.0 mV

Receptacle (female)



Plug (male)



Amperage	Wiring Hole Diameters		2P (50V)	2P+15A Pilot (50V)	2P+E+15A Pilot (500V)
	(in)	(mm)			
75A	.25"	6.3	5-2105-A	5-2106-A	5-2107-A
100A	.32"	8.1	5-2105-B	5-2106-B	5-2107-B
125A	.36"	9.1	5-2105-C	5-2106-C	5-2107-C
150A	.43"	10.9	5-2105-D	5-2106-D	5-2107-D
200A	.50"	12.7	5-2105-K	5-2106-K	5-2107-K

Amperage	Wiring Hole Diameters		2P (50V)	2P+15A Pilot (50V)	2P+E+15A Pilot (500V)
	(in)	(mm)			
75A	.25"	6.3	5-0205-A	5-0206-A	5-0207-A
100A	.32"	8.1	5-0205-B	5-0206-B	5-0207-B
125A	.36"	9.1	5-0205-C	5-0206-C	5-0207-C
150A	.43"	10.9	5-0205-D	5-0206-D	5-0207-D
200A	.50"	12.7	5-0205-K	5-0206-K	5-0207-K