WS – Welding Connectors

General Ratings

- **Voltage**
  50 VAC Max
- **Amperage**
  325A Continuous
  500A Intermittent

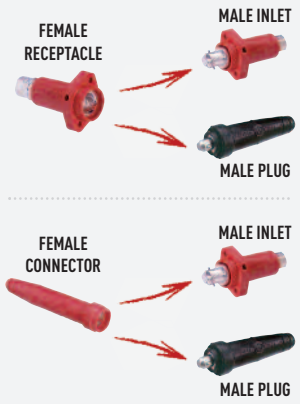
Notes: *The chart to the right is a guideline for wiring sizes based on duty cycles.*

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 in²	Wiring Hole mm²	Maximum Amperage Cycle (5 min Cycle) 30% Duty	60% Duty	100% Duty
.025	16	150A	100A	75A
.047	30	200A	125A	100A
.062	40	250A	150A	125A
.078	50	300A	200A	150A
.116	75	350A	250A	200A
.155	100	400A	300A	250A
.186	120	450A	350A	275A
.233	150	500A	450A	325A

Application Note

Interchangeability



Receptacle (female)
Lug Type Connection

Wiring Hole (in²)	Wiring Hole (mm²)	Type 2 200A	Type 3 300A	Type 5 500A
.025	16	4-2401-A	-	-
.047	30	4-2401-B	-	-
.062	40	4-2401-C	-	-
.078	50	4-2401-D	4-3401-E	-
.116	75	-	4-3401-F	-
.155	100	-	4-3401-G	-
.186	120	-	-	4-5401-H
.233	150	-	-	4-5401-J

Inlet (male)
Lug Type Connection

Wiring Hole (in²)	Wiring Hole (mm²)	Type 2 200A	Type 3 300A	Type 5 500A
.025	16	4-2901-A	-	-
.047	30	4-2901-B	-	-
.062	40	4-2901-C	-	-
.078	50	4-2901-D	4-3901-E	-
.116	75	-	4-3901-F	-
.155	100	-	4-3901-G	-
.186	120	-	-	4-5901-H
.233	150	-	-	4-5901-J

Connector (female)
Crimp/Solder Connection

Wiring Hole (in²)	Wiring Hole (mm²)	Type 2 200A	Type 3 300A	Type 5 500A
.025	16	4-2301-A	-	-
.047	30	4-2301-B	-	-
.062	40	4-2301-C	-	-
.078	50	4-2301-D	4-3301-E	-
.116	75	-	4-3301-F	-
.155	100	-	4-3301-G	-
.186	120	-	-	4-5301-H
.233	150	-	-	4-5301-J

Plug (male)
Crimp/Solder Connection

Wiring Hole (in²)	Wiring Hole (mmv)	Type 2 200A	Type 3 300A	Type 5 500A
.025	16	4-0201-A	-	-
.047	30	4-0201-B	-	-
.062	40	4-0201-C	-	-
.078	50	4-0201-D	4-0301-E	-
.116	75	-	4-0301-F	-
.155	100	-	4-0301-G	-
.186	120	-	-	4-0501-H
.233	150	-	-	4-0501-J

LC – Battery Connectors

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 750 VDC Max
  50 to 690 VAC Max
- **Current Interruption Capability**
  Not for current interrupting
- **Amperage**
  75A - 200A
- **Pilot Circuit**
  50V Max
- **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	Lug I.D. in	Lug I.D. mm	Wiring Capacity AWG*	Wiring Capacity mm²	2P 50V	2P+15A Pilot 50V	2P+G+15A Pilot 690VAC/750VDC*
75A	.23	6.0	6	16	5-2105-A	5-2106-A	5-2107-A
100A	.32	8.2	3	30	5-2105-B	5-2106-B	5-2107-B
125A	.36	9.2	1	40	5-2105-C	5-2106-C	5-2107-C
150A	.43	11.0	1/0	50	5-2105-D	5-2106-D	5-2107-D
200A	.50	12.5	2/0	75	5-2105-K	5-2106-K	5-2107-K

Amperage	Lug I.D. in	Lug I.D. mm	Wiring Capacity AWG*	Wiring Capacity mm²	2P 50V	2P+15A Pilot 50V	2P+G+15A Pilot 690VAC/750VDC*
75A	.23	6.0	6	16	5-0205-A	5-0206-A	5-0207-A
100A	.32	8.2	3	30	5-0205-B	5-0206-B	5-0207-B
125A	.36	9.2	1	40	5-0205-C	5-0206-C	5-0207-C
150A	.43	11.0	1/0	50	5-0205-D	5-0206-D	5-0207-D
200A	.50	12.5	2/0	75	5-0205-K	5-0206-K	5-0207-K

* *May vary depending upon the type of wire used*
• *Pilot circuit is rated for maximum of 50V*

Wiring Lug