

# 164 Series Audio Connectors

Qualified to MIL-C-55116, 164 Series Audio Connectors are waterproof, come in five and six pin options, and have polarized plugs and receptacles. These plugs and receptacles are ideal for use in audio frequency circuits at 60V maximum potential and 0.5A maximum current. These connectors can use either crimp sleeve or solder cup contacts. Connector options, such as shielding, filtering, right-angle connectors, and miniaturization of M55116 products are available. These connectors are used throughout military radio systems and intercom systems for ground, vehicle, airborne, and naval communications.

- Qualified to MIL-C-55116
- Connectors can use either crimp sleeve or solder cup contacts
- Rigid contacts in the plug connectors mate with the pogo-pin, or spring-loaded, contacts in the receptacle
- Plugs come with a wire strain relief or molded strain relief
- Receptacles are available in either panel-mount or an in-line receptacle
- Shielding, filtering, right-angle connectors, and miniaturization connectors of M55116 products are available

## Materials & Specifications

	Twist & Lock
<b>Materials</b>	Insulator: DAP
	Contact: Brass
	Shell: Stainless Steel
<b>Finish</b>	Contact: 1.25 µm gold over nickel on mating contact
	Shell: Sand blasted and passivated
<b>Sealing</b>	0.17 kg/cm <sup>2</sup>
<b>Voltage Proof</b>	500 Vms
<b>Operating Current</b>	500 mA per contact
<b>Operating Temperature</b>	-55°C to +85°C



## Cross References Part Numbers

SI	MIL	APCD
1	M55116/1-1	164-229-1
2	M55116/1-2	164-229-2
3	M55116/1-3	164-229-3
4	M55116/1-4	164-229-4
5	M55116/1-5	164-229-5
6	M55116/2-1	164-229-6-1
7	M55116/2-2	164-229-6-2
8	M55116/2-3	164-229-6-3
9	M55116/2-4	164-229-6-4
10	M55116/2-5	164-229-6-5
11	M55116/3-1	164-229-S-1
12	M55116/3-2	164-229-S-2
13	M55116/3-3	164-229-S-3
14	M55116/3-4	164-229-S-4
15	M55116/3-5	164-229-S-5
16	M55116/4-1	164-229-6S-1
17	M55116/4-2	164-229-6S-2
18	M55116/4-3	164-229-6S-3
19	M55116/4-4	164-229-6S-4
20	M55116/4-5	164-229-6S-5

SI	MIL	APCD
21	M55116/5-1	164-182-1
22	M55116/5-2	164-182-2
23	M55116/5-3	164-182-3
24	M55116/5-4	164-182-4
25	M55116/5-5	164-182-5
26	M55116/6-1	164-182-6-1
27	M55116/6-2	164-182-6-2
28	M55116/6-3	164-182-6-3
29	M55116/6-4	164-182-6-4
30	M55116/6-5	164-182-6-5
31	M55116/7-1	164-182-S-1
32	M55116/7-2	164-182-S-2
33	M55116/7-3	164-182-S-3
34	M55116/7-4	164-182-S-4
35	M55116/7-5	164-182-S-5
36	M55116/7-6	164-182-S-6
37	M55116/8-2	164-182-6S-2
38	M55116/8-3	164-182-6S-3
39	M55116/8-4	164-182-6S-4
40	M55116/8-5	164-182-6S-5

SI	MIL	APCD
41	M55116/9-0	164-183
42	M55116/10-0	164-183-6
43	M55116/11-1	164-228-1
44	M55116/11-2	164-228-2
45	M55116/11-3	164-228-3
46	M55116/11-4	164-228-4
47	M55116/11-5	164-228-5
48	M55116/12-1	164-228-6-1
49	M55116/12-2	164-228-6-2
50	M55116/12-3	164-228-6-3
51	M55116/12-4	164-228-6-4
52	M55116/12-5	164-228-6-5
53	M55116/13-1	164-228-S-1
54	M55116/13-2	164-228-S-2
55	M55116/13-3	164-228-S-3
56	M55116/13-4	164-228-S-4
57	M55116/13-5	164-228-S-5
58	M55116/14-1	164-228-6S-1
59	M55116/14-2	164-228-6S-2
60	M55116/14-3	164-228-6S-3
61	M55116/14-4	164-228-6S-4
62	M55116/14-5	164-228-6S-5

# MW Series Power Connectors

Qualified to MIL-C-55181, MW Series Power Connectors have a center lock coupling screw, are waterproof & polarized. They're typically used for the interconnection of power & control circuit electric equipment - especially in military & harsh environments, such as soldier communication & ground vehicles.

- Qualified to MIL-C-55181
- Center lock coupling screw: ensures connector can withstand high shock & vibration
- Polarized system: prevent users from connecting the peripheral incorrectly or reversed
- Several part numbers to choose from

## Ordering Information

M	55181	X	Y
Prefix M: Military QPL Version	Basic Specifications	Configuration per sub-specification sheet per Table #1	Cable Size Designator (01-05) per Table #2

Table #2	
"Y" Value	Cable Diameter (IN)
01	0.292 ± 0.005
02	0.323 ± 0.005
03	0.448 ± 0.005
04	0.511 ± 0.005
05	0.386 ± 0.005



## Cross References Part Numbers

MIL	Description	NSN Part Number	Amphenol	General Connector	Power Connector
M55181/1-01	Plug, Cable, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935006036952	MW01F(M)A11	MW01F(M)A11	MW01F(M)A11
M55181/1-02	Plug, Cable, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935012047312	MW01F(M)A13	MW01F(M)A13	MW01F(M)A13
M55181/1-03	Plug, Cable, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935009213399	MW01F(M)A17	MW01F(M)A17	MW01F(M)A17
M55181/1-04	Plug, Cable, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935012497559	MW01F(M)A19	MW01F(M)A19	MW01F(M)A19
M55181/1-05	Plug, Cable, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935013294190	MW01F(M)A15	MW01F(M)A15	MW01F(M)A15
M55181/2-01	Receptacle, Panel, 4 contacts, Pins, 35 AMPS, Size 12 contacts	5935013789152	MW20M(M)A00	MW20M(M)A00	MW20M(M)A00
M55181/3-01	Plug, Cable, 4 contacts, Pins, 35 AMPS, Size 12 contacts	5935012082345	MW10M(M)A11	MW10M(M)A11	MW10M(M)A11
M55181/3-02	Plug, Cable, 4 contacts, Pins, 35 AMPS, Size 12 contacts	5935011249341	MW10M(M)A13	MW10M(M)A13	MW10M(M)A13
M55181/3-03	Plug, Cable, 4 contacts, Pins, 35 AMPS, Size 12 contacts	5935011676095	MW10M(M)A17	MW10M(M)A17	MW10M(M)A17
M55181/4-01	Receptacle, Panel, 4 contacts, Sockets, 35 AMPS, Size 12 contacts	5935011997156	MW20F(M)A00	MW20F(M)A00	MW20F(M)A00
M55181/7-01	Plug, Cable, 18 contacts, Pins, 7.5 AMPS, Size 20 contacts, Solder cup	5935011119956	MW10M(M)D11	MW10M(M)D11	MW10M(M)D11
M55181/7-02	Plug, Cable, 18 contacts, Pins, 7.5 AMPS, Size 20 contacts, Solder cup	5935011163608	MW10M(M)D13	MW10M(M)D13	MW10M(M)D13
M55181/7-03	Plug, Cable, 18 contacts, Pins, 7.5 AMPS, Size 20 contacts, Solder cup	5935008152325	MW10M(M)D17	MW10M(M)D17	MW10M(M)D17
M55181/7-04	Plug, Cable, 18 contacts, Pins, 7.5 AMPS, Size 20 contacts, Solder cup	5935013003701	MW10M(M)D19	MW10M(M)D19	MW10M(M)D19
M55181/7-05	Plug, Cable, 18 contacts, Pins, 7.5 AMPS, Size 20 contacts, Solder cup	5935013298690	MW10M(M)D15	MW10M(M)D15	MW10M(M)D15
M55181/8-01	Receptacle, Panel, 18 contacts, Sockets, 7.5 AMPS, Size 20 contacts, Solder cup	5935001330394	MW20F(M)D00	MW20F(M)D00	MW20F(M)D00