

Harsh Environment Power Connectors

Rugged, Reliable, Battle-Field Tested















MIL-DTL-55181
MIL-DTL-12520
and Commercial
Versions for
Mid-Range Power
Operations

Mid-Range Power Connectors









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Innovation You Can Trust In The Most Challenging Conditions

Introduction











Cooper Interconnect's line of QPL qualified and Commercial-Off-The-Shelf (COTS) connectors offer exceptional durability and versatility for many military and industrial mid-range power needs.

The QPL versions, designed and built under the WPI General Connector brand, have endured over 40 years of trusted ground support field use. With the acquisition of WPI General Connector, Cooper Interconnect has expanded the line to offer custom shell configurations, including Stackable Power connectors, Dual Entry and Dual Header connectors. These exclusive designs provide cost and space savings in both new design and retrofit applications.

Weatherproof seals, rugged construction, and premium quality components have allowed Cooper Interconnect's products to excel when the requirement is mission-critical.

The value-engineered COTS 55181 power family offers the same outstanding performance as our QPL military workhorse, at a more economical price. Along with direct equivalents for our most popular QPL configurations, Cooper Interconnect offers cable adaptor designs that enable cable shield termination for various cable sizes in the field or factory.

CONNECTIVITY

For your toughest mid-range power connector applications, look to Cooper Interconnect for the right solution.

M55181 Series

QPL qualified to MIL-DTL-55181, latest version.

MW Series follows U.S. government part number designation.

GC55181 Standard Series

COTS version of the M55181 or MW Series.

GC55181 Adaptor Series Similar to the GC55181 Standard Series, offers three cable shield adaptors to support a wide range of cables.

M12520 Series

Meets all the requirements of MIL-DTL-12520.

UW Series follows Cooper Interconnect's part number designation.

Custom Shell Configurations

The Stacking, Dual Header, Dual Entry and SB Series connectors are Cooper's customized shell configurations.

Filtered Connectors

MIL-DTL-55181 interface connectors with filters to surpress unwanted frequencies.

Accessories & Tooling

Dust Caps, Spanner Wrenches and Termination Instructions.

INNOVATION

Markets & Applications



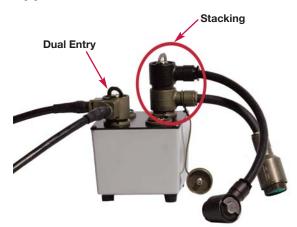
Markets

The Cooper Interconnect series of mid-range power connectors has been used in rugged, harsh environment applications from the time that we were known as General Connector (GC). The GC designation, remains on many of the old specifications today.

The M55181 panel mount pin connectors, long the power connector of choice, are used as the Output power connection for SINCGARS (Single Channel Ground and Airborne Radio System) and the panel mount socket connectors are used as the Input power connection. The 18-pin M55181 connectors are used as the audio/data connectors.

The JTRS (Joint Tactical Radio System) radios continue to use the M55181 connectors for power requirements.

Applications



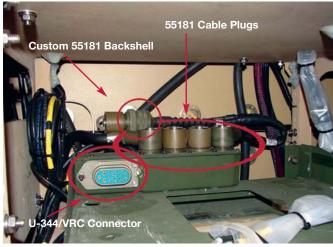
These connectors are used in a wide variety of other power systems, surge suppression systems and control circuits.

The stacking M55181 connector enables two radios or other devices to draw power from one source with "no extra parts needed and no parts left over."

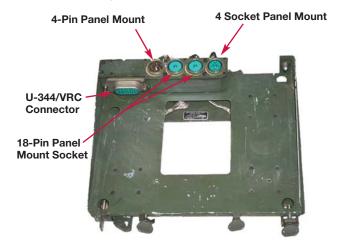
Dual Entry connectors enable power to be split from one source to two devices, similarly to the stacking connector.

SINCGARS Vehicle Adaptors

MIL-DTL-55181 connectors are used for the power in and power out functions to mount a SINCGARS radio in a vehicle. The MIL-DTL-55181 18-pin connector is used as the audio/data output.



Mounted SINCGARS Vehicle Adaptor



SINCGARS Vehicle Adaptor Tray

Product Configurator Guide

Use the Product Configurator Guide below to find the best solution for your specific application. Black text means the product configuration is available with normal lead times. Red text means the product configuration is possible to manufacture. Consult factory for details.

PANEL MOUNTS								
PRODUCT CONFIGURATION	PART NUMBER	STYLE	CONTACTS	NUMBER OF CONTACTS	TERMINATION STYLE	SHELL PLATING OPTIONS	MATES WITH	
QPL Standard	M55181/2-01	Rcpt.	Pin	4	Turret	CAD *(Chem Conversion, Blk Ni)	M, GC and CI 55181/1 series	
	M55181/4-01	Rcpt.	Skt	4	Turret	CAD *(Chem Conversion, Blk Ni)	M, GC and CI 55181/3 series	
	M55181/6-01	Rcpt.	Skt	9	Solder Cup	CAD *(Chem Conversion, Blk Ni)	M, GC and CI 55181/5 series	
	M55181/8-01	Rcpt.	Skt	18	Solder Cup	CAD *(Chem Conversion, Blk Ni)	M, GC and Cl 55181/7 series	

 $^{^{\}star}\text{Alternate}$ plating and shell configurations on a QPL product, makes a non QPL product.

		C	ABLE MOUN	гѕ			
PRODUCT CONFIGURATION	PART NUMBER	STYLE	CONTACTS	NUMBER OF CONTACTS	TERMINATION STYLE	SHELL PLATING OPTIONS	MATES WITH
QPL Standard	M55181/1-0X	Plug	Skt	4	Turret	CAD *(Chem Conversion, Blk Ni)	M, and CI 55181/2 series
	M55181/3-0X	Plug	Pin	4	Turret	CAD *(Chem Conversion, Blk Ni)	M, and CI 55181/4 series
	M55181/5-0X	Plug	Pin	9	Solder Cup	CAD *(Chem Conversion, Blk Ni)	M, and CI 55181/6 series
	M55181/7-0X	Plug	Pin	18	Solder Cup	CAD *(Chem Conversion, Blk Ni)	M, and CI 55181/8 series
Standard COTS	GC55181/1-0X	Plug	Skt	4	Turret	Chem Conversion (Blk Ni)	M, and CI 55181/2 series
	GC55181/3-0X	Plug	Pin	4	Turret	Chem Conversion (Blk Ni)	M, and CI 55181/4 series
	GC55181/5-0X	Plug	Pin	9	Solder Cup	Chem Conversion (Blk Ni)	M, and CI 55181/6 series
	GC55181/7-0X	Plug	Pin	18	Solder Cup	Chem Conversion (Blk Ni)	M, and CI 55181/8 series
COTS Adaptor Series	GC55181/1-ADX	Plug	Skt	4	Turret	Chem Conversion **(CAD, Blk Ni)	M, and CI 55181/2 series
	GC55181/3-ADX	Plug	Pin	4	Turret	Chem Conversion **(CAD, Blk Ni)	M, and CI 55181/4 series
7 7	GC55181/5-ADX	Plug	Pin	9	Solder Cup	Chem Conversion **(CAD, Blk Ni)	M, and CI 55181/6 series
1 1 1	GC55181/7-ADX	Plug	Pin	18	Solder Cup	Chem Conversion **(CAD, Blk Ni)	M, and CI 55181/8 series
Stacking Standard	CI55181/1-0XS	Plug	Skt	4	Turret	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/2 series
	CI55181/3-0XS	Plug	Pin	4	Turret	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/4 series
	CI55181/5-0XS	Plug	Pin	9	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/6 series
	CI55181/7-0XS	Plug	Pin	18	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/8 series
Stacking Standard COTS	GC55181/1-0XS	Plug	Skt	4	Turret	Chem Conversion, Blk Ni	M, and CI 55181/2 series
	GC55181/3-0XS	Plug	Pin	4	Turret	Chem Conversion, Blk Ni	M, and CI 55181/4 series
	GC55181/5-0XS	Plug	Pin	9	Solder Cup	Chem Conversion, Blk Ni	M, and CI 55181/6 series
	GC55181/7-0XS	Plug	Pin	18	Solder Cup	Chem Conversion, Blk Ni	M, and CI 55181/8 series

^{**}Nosepiece is CAD plated.



Product Configurator Guide



		CAB	LE MOUNTS				
PRODUCT CONFIGURATION	PART NUMBER	STYLE	CONTACTS	NUMBER OF CONTACTS	TERMINATION STYLE	SHELL PLATING OPTIONS	MATES WITH
Stacking COTS Adaptor Series	GC55181/1-ADXS	Plug	Skt	4	Turret	CAD, Chem Conversion, Blk Ni	M, and CI 55181/2 series
	GC55181/3-ADXS	Plug	Pin	4	Turret	CAD, Chem Conversion, Blk Ni	M, and CI 55181/4 series
	GC55181/5-ADXS	Plug	Pin	9	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and CI 55181/6 series
	GC55181/7-ADXS	Plug	Pin	18	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and CI 55181/8 series
Double Header	CI55181/2-DH0X	Plug	Skt	4	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, GC and Cl 55181/1 series
The same and a	CI55181/4-DH0X	Plug	Pin	4	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, GC and Cl 55181/3 series
<	Cl55181/6-DH0X	Plug	Pin	9	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, GC and Cl 55181/5 series
	CI55181/8-DH0X	Plug	Pin	18	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, GC and Cl 55181/7 series
Double Header Adaptor Style	CI55181/2-DHADX	Plug	Skt	4	Turret	CAD, Chem Conversion, Blk Ni	M, GC and Cl 55181/1 series
	CI55181/4-DHADX	Plug	Pin	4	Turret	CAD, Chem Conversion, Blk Ni	M, GC and Cl 55181/3 series
	CI55181/6-DHADX	Plug	Pin	9	Solder Cup	CAD, Chem Conversion, Blk Ni	M, GC and Cl 55181/5 series
1 1	CI55181/8-DHADX	Plug	Pin	18	Solder Cup	CAD, Chem Conversion, Blk Ni	M, GC and Cl 55181/7 series
Dual Entry (75°/90°) Adaptor Style	CI55181/1- DE(75)AD0X	Plug	Skt	4	Turret	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/2 series
	CI55181/3- DE(75)AD0X	Plug	Pin	4	Turret	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/4 series
	CI55181/5- DE(75)AD0X	Plug	Pin	9	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/6 series
Mary and	CI55181/7- DE(75)AD0X	Plug	Pin	18	Solder Cup	CAD (Chem Conversion, Blk Ni)	M, and CI 55181/8 series
Dual Entry (75°/90°) Stacking Adaptor Style	CI55181/1- DE(75)AD0XS	Plug	Skt	4	Turret	CAD, Chem Conversion, Blk Ni	M, and CI 55181/2 series
	CI55181/3- DE(75)AD0XS	Plug	Pin	4	Turret	CAD, Chem Conversion, Blk Ni	M, and CI 55181/4 series
	Cl55181/5- DE(75)AD0XS	Plug	Pin	9	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and CI 55181/6 series
1	CI55181/7- DE(75)AD0XS	Plug	Pin	18	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and CI 55181/8 series
SB Series	CI55181/2-01SBY-0X	Rcpt.	Pin	4	Turret	CAD/Nickel (Blk NI)	M, GC and Cl 55181/1 series
	Cl55181/4-01SBY-0X	Rcpt.	Skt	4	Turret	CAD/Nickel (Blk NI)	M, GC and Cl 55181/3 series
(° °)	Cl55181/6-01SBY-0X	Rcpt.	Skt	9	Solder Cup	CAD/Nickel (Blk NI)	M, GC and Cl 55181/5 series
	Cl55181/8-01SBY-0X	Rcpt.	Skt	18	Solder Cup	CAD/Nickel (Blk NI)	M, GC and Cl 55181/7 series
	Cl55181/1-01SBY-0X	Plug	Skt	4	Turret	CAD, Chem Conversion, Blk Ni	M, and Cl 55181/2 series
	Cl55181/3-01SBY-0X	Plug	Pin	4	Turret	CAD, Chem Conversion, Blk Ni	M, and Cl 55181/4 series
	Cl55181/5-01SBY-0X	Plug	Pin	9	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and Cl 55181/6 series
10 To	Cl55181/7-01SBY-0X	Plug	Pin	18	Solder Cup	CAD, Chem Conversion, Blk Ni	M, and CI 55181/8 series

Note: Black Nickel plated parts are RoHS Compliant.



M55181/7-0X

Product Overview

With over 40 years of field-proven reliability, Cooper Interconnect's MIL-DTL-55181 (MW Series) power connectors are designed to meet the most stringent requirements while withstanding the extreme range of environmental conditions encountered by ground support equipment.

Resistant to contamination of dust, dirt and water, these workhorse connectors also are engineered to provide the ultimate resistance to shock and vibration via the center-locking screw, which is easily secured by turning the mechanized fold-down, wing-blade handle.

The Cooper Interconnect MW series is the predecessor to the MIL-DTL-55181 specification. When the M55181 specification was written by the government, they derived the spec from the existing Cooper Interconnect and General Connector MW product line. The cross reference from MW part numbers to the M55181 part numbers is available on page 13. By default, the MW part numbers also meet the requirements of the MIL-DTL-55181 specification.

Features and Benefits

QPL certified - The M55181 and MW connectors are government qualified per MIL-DTL-55181.

Versatile Configurations – The M55181 series are available in 4-, 9- and 18-contact versions, as plugs or receptacles. They support cable-to-cable, cable-to-panel, and jam nut panel mounting.

Weatherproof - Heavy-duty gaskets and O-rings provide a watertight seal to prevent moisture, dust and dirt contamination and to maximize reliability.

Durable Construction – Time-tested, field-proven reliability. Corrosion-resistant, aluminum alloy receptacle and high-impact solid brass plug construction resist impact damage. Heat-tempered nosepiece is made of hardened alloy steel for enhanced impact protection for rough handling.

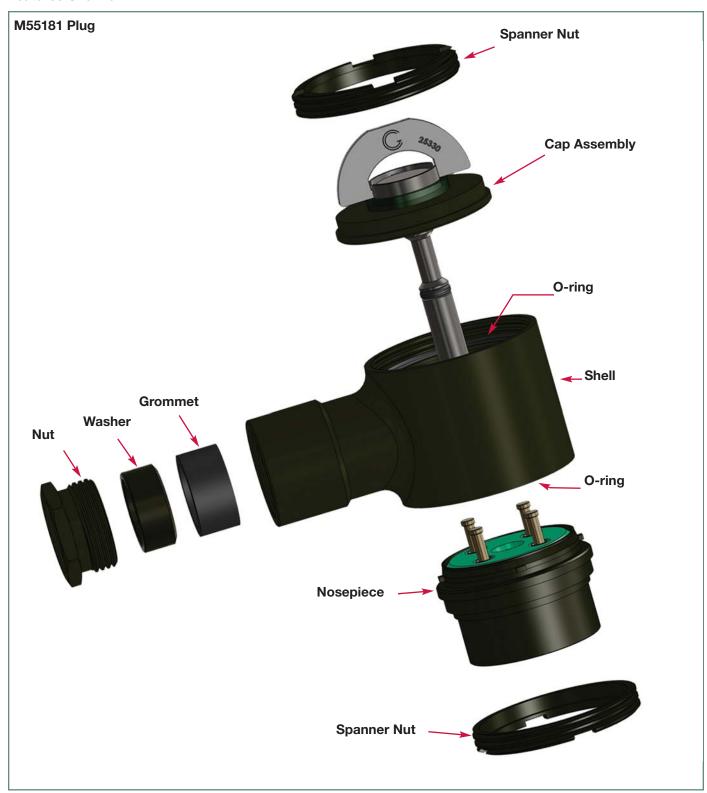
Superior Electrical Connections - Precision contacts have gold over nickel plating providing positive electrical connection with minimum voltage drop.

Easy to Use - Receptacle and plug mating is accomplished quickly and easily by turning a center-locking, double-lead screw with an easy-to-grasp wing-blade handle. Vibration-resistant, secure locking mechanism will not back out.

Reliable - Worry-free 500 mate/unmate cycle rating.



Features Overview



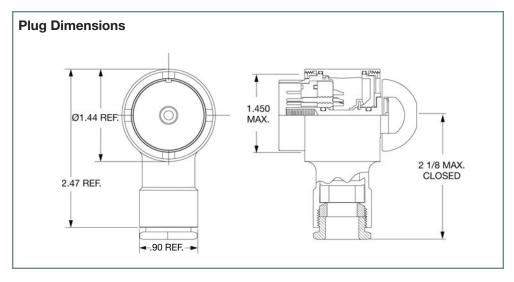
The MW connectors meet all requirements of MIL-DTL-55181.

Specifications

	MATERIALS AND FINISHES					
Shells						
Plugs	Aluminum alloy body, steel alloy nosepiece 300u" cadmium plate with olive-drab chromate.					
Receptacles	Brass, 300u" cadmium plate with olive-drab chromate.					
Nosepieces	Alloy steel, 300u" cadmium plate with olive-drab chromate.					
Spanner Nut	Brass, olive-drab cadmium plate.					
Draw Screws	Stainless steel.					
Contacts						
Socket	High-conductivity copper alloy with beryllium copper spring element, 50u" gold over 30-150u" nickel.					
Pin	Yellow brass, 50u" gold over 30-150u" nickel.					
Insulator	Glass-filled diallyl phthalate, type GDF-30 F or SDG-F.					

ELECTRICAL					
Dielectric Strength					
4 Contacts	2000 Volts RMS				
9, 18 Contacts	1500 Volts RMS				
Insulation Resistance	1000 Megohms min. at 500 Volts DC				
Voltage Drop	·				
4 Contact	20 mV at 35 Amps				
9, 18 Contact	25 mV at 7.5 Amps				

MECHANICAL					
Air Pressure	2.5 PSI				
Water Immersion	6 ft., 48 hours				
Durability	500 cycles with a coupling torque of 25 inlbs.				
Contact Retention	10 lbs.				
Insert Strength	400 lbs.				





M55181 Connectors (MW Series)







M55181/3-0X



M55181/7-0X



M55181/2-01



M55181/4-01

Receptacles are available for all mid-range power connectors.

M55181 receptacles support Mil-Spec and COTS versions of the 55181 power connector family.

MW receptacles support the MW Plugs.

Consult factory for your specific needs.

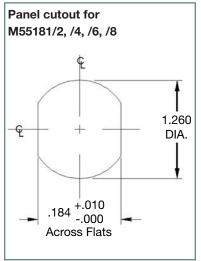


M55181/6-01

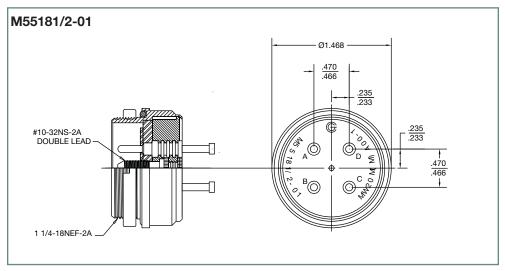


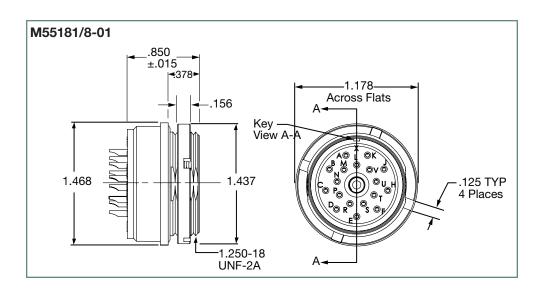
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MW RECEPTACLES								
CI GENERAL PART NUMBER	NUMBER OF CONTACTS	CONTACT TYPE	AMPS CONTACT	CONTACT SIZE	TERMINATION	MOUNT	MATES WITH PLUGS	
M55181/2- 01	4	Pin	35	12	Turret		M55181/1-, GC55181/1-, Cl55181/1-series	
M55181/4- 01	4		33	12	1	Panel	M55181/3-, GC55181/3-, Cl55181/3-series	
M55181/6- 01	9	Socket	7.5		0.11.0		M55181/5-series	
M55181/8- 01	18		7.5	20	Solder Cup		M55181/7-, GC55181/7-, Cl55181/7-series	









Consult factory for additional information.



Ordering Information - Part Numbering System

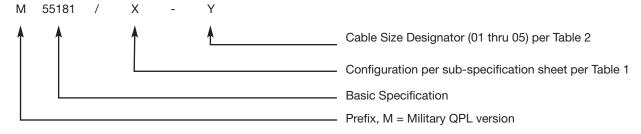


	TABLE 1								
CI GENERAL PART NUMBER	"X" VALUE	TYPE	MOUNT	CONTACT NUMBER	CONTACT TYPE	AMPS	CONTACT	TERMINATION	MATES WITH
M55181/1- Y*	1	Plug	Cable	4	Socket	35	12	Turret	M55181/2-, GC55181/2-, Cl55181/2-series
M55181/2- Y*	2	Receptacle	Panel	4	Pin	35	12	Turret	M55181/1-, GC55181/1-, Cl55181/1-series
M55181/3- Y*	3	Plug	Cable	4	Pin	35	12	Turret	M55181/4-, GC55181/4-, Cl55181/4-series
M55181/4- Y*	4	Receptacle	Panel	4	Socket	35	12	Turret	M55181/3-, GC55181/3-, Cl55181/3-series
M55181/5- Y*	5	Plug	Cable	9	Pin	7.5	20	Solder Cup	M55181/6-, GC55181/6-, CI 55181/6-series
M55181/6- Y*	6	Receptacle	Panel	9	Socket	7.5	20	Solder Cup	M55181/5-series
M55181/7- Y*	7	Plug	Cable	18	Pin	7.5	20	Solder Cup	M55181/8-, GC55181/8-, CI 55181/8 series
M55181/8- Y*	8	Receptacle	Panel	18	Socket	7.5	20	Solder Cup	M55181/7-, GC55181/7-, Cl55181/7-series

 $^{^{\}star}$ Cable diameter specification not applicable to receptacles (only as an -01).

GOVERNMENT DESIGNATION	MANUFACTURER'S DESIGNATION	NSN
M55181/1-01	MW10F(M)A11	5935006036952
M55181/1-02	MW10F(M)A13	5935012047312
M55181/1-03	MW10F(M)A17	5935009213399
M55181/1-04	MW10F(M)A19	5935012497559
M55181/1-05	MW10F(M)A15	5935013294190
M55181/2-01	MW20M(M)A00	5935013789152
M55181/3-01	MW10M(M)A11	5935012082345
M55181/3-02	MW10M(M)A13	5935011249341
M55181/3-03	MW10M(M)A17	5935011676095
M55181/4-01	MW20F(M)A00	5935011997156
M55181/5-01	MW10M(M)B11	5935011841460
M55181/5-02	MW10M(M)B13	5935011491162
M55181/5-03	MW10M(M)B17	5935010816484
M55181/6-01	MW20F(M)B00	5935008535942
M55181/7-01	MW10M(M)D11	5935011119956
M55181/7-02	MW10M(M)D13	5935011163608
M55181/7-03	MW10M(M)D17	5935008152325
M55181/7-04	MW10M(M)D19	5935013003701
M55181/7-05	MW10M(M)D15	5935013298690
M55181/8-01	MW20F(M)D00	5935001330394

TABLE 2						
"Y" VALUE	CABLE DIAMETER (INCHES)					
01	0.292 to 0.343					
02	0.323 to 0.406					
03	0.448 to 0.531					
04	0.511 to 0.593					
05	0.386 to 0.486					

The MW connectors meet all requirements of MIL-DTL-55181.



Standard COTS GC55181/3-0X

Product Overview

For military and industrial power applications in harsh environments where cost containment is more important than government certification. Cooper Interconnect's Commercial-Off-the-Shelf (COTS) version of the M55181 family provides the same performance as the certified version of the M55181 power connectors, but at an economical price.

Features and Benefits

Value-Engineered Solution - Same performance standards as Cooper Interconnect's MIL-DTL-55181 power connector family, with cost savings built in.

Configuration Options - Available in two primary configurations:

- 1. Standard COTS 55181 for seamless integration into M55181 type applications.
- 2. Cable adaptor COTS 55181 for a wide range of shielded cable configurations.

Rugged Construction - High-strength aluminum alloy maximizes corrosion resistance and tempered nose piece minimizes damage from high impact forces. Provides weather and waterproof seals for protection against environmental contaminants, with secure mating options.

- Center-locking, double-lead screws allow easy, positive, and secure mating.
- Mounting flexibility for cable-to-cable, and cable-to-panel applications.
- Gold over nickel contacts provide positive, efficient, electrical connections.
- Worry-free, 500 mate/unmate cycle rating.

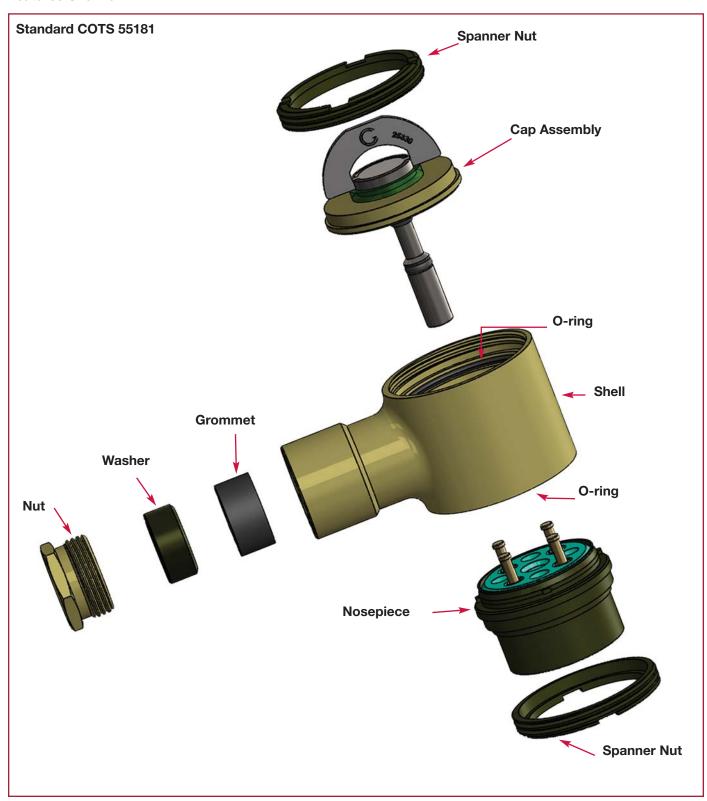


COTS power connectors excel in the harshest conditions.





Features Overview



These power connectors are used in rugged applications that require waterproofing and extended life for communication equipment and industrial instrumentation.

Specifications are for both COTS and Adaptor versions.



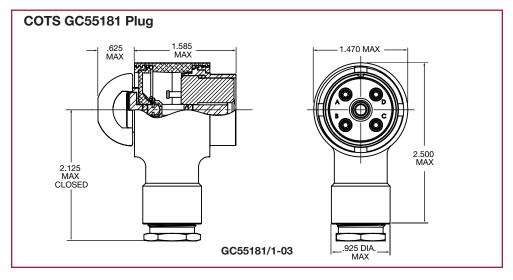
New Black Nickel (RoHS) Plating

Specifications

MATERIALS AND FINISHES					
Shells					
Plugs	Aluminum alloy body, chemical film per MIL-C-5541.				
Nose pieces	Alloy steel, 300u" cadmium plate with olive-drab chromate.				
Draw Screws	Stainless steel.				
Nut	Brass, 300u" cadmium plate with olive-drab chromate.				
Spanner Nut	Cadmium plate with olive-drab chromate.				
Adaptor	Aluminum alloy body, chemical film per MIL-C-5541.				
Contacts	•				
Socket	High-conductivity copper alloy with beryllium copper spring element, 30u" gold over 10-100u" nickel.				
Pin	Yellow brass, 30u" gold over 50-100u" nickel.				
Insulator	Glass-filled diallyl phthalate, type GDF-30 F or SDG-F.				

ELECTRICAL				
Dielectric Strength				
4 Contacts	2000 Volts RMS			
9, 18 Contacts	1500 Volts RMS			
Insulation Resistance	1000 Megohms min. at 500 Volts DC			
Voltage Drop				
4 Contact	20 mV at 35 Amps			
9, 18 Contact	21 mV at 7.5 Amps			

MECHANICAL				
Air Pressure	2.5 PSI			
Water Immersion	6 ft., 48 hours			
Durability	500 cycles with a coupling torque of 25 inlbs.			
Contact Retention	15 lbs.			
Insert Strength	400 lbs.			





Ordering Information - Part Numbering System

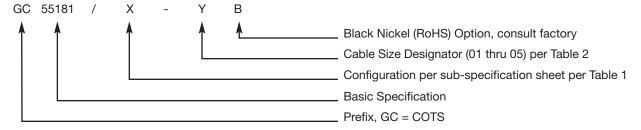
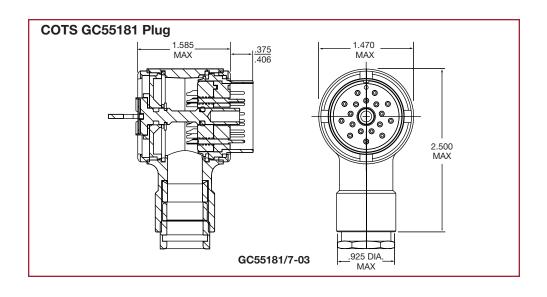


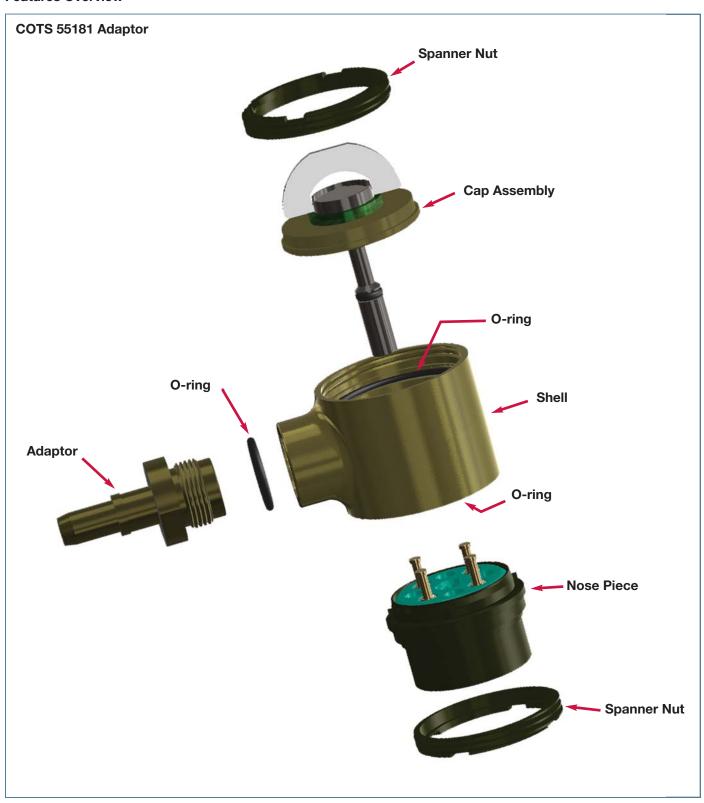
TABLE 1							
CI GENERAL PART NUMBER	TYPE	MOUNT	CONTACT NUMBER	CONTACT TYPE	AMPS	TERMINATION	
GC55181/1- Y	Plug	Cable	4	Socket	35	Turret	
GC55181/3- Y	Plug	Cable	4	Pin	35	Turret	
GC55181/5- Y	Plug	Cable	9	Pin	7.5	Solder Cup	
GC55181/7- Y	Plug	Cable	18	Pin	7.5	Solder Cup	

TABLE 2*				
"Y" VALUE	CABLE DIAMETER (INCHES)			
01	0.292 to 0.343			
02	0.323 to 0.406			
03	0.448 to 0.531			
04	0.511 to 0.593			
05	0.386 to 0.486			

^{*}COTS plugs mate with 55181 receptacles. See Receptacles information on page 12.



Features Overview





Ordering Information - Part Numbering System

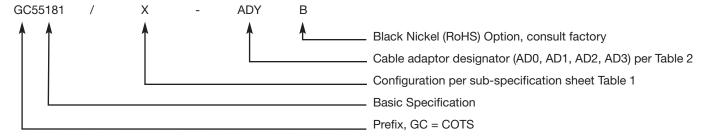
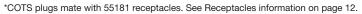


TABLE 1							
CI GENERAL PART NUMBER	TYPE	MOUNT	CONTACT NUMBER	CONTACT TYPE	AMPS	TERMINATION	
GC55181/1- ADY	Plug	Cable	4	Socket	35	Turret	
GC55181/3- ADY	Plug	Cable	4	Pin	35	Turret	
GC55181/5 - ADY	Plug	Cable	9	Pin	7.5	Solder Cup	
GC55181/7- ADY	Plug	Cable	18	Pin	7.5	Solder Cup	





GC55181/3-AD1

TABLE 2							
ADAPTOR TYPE	DESCRIPTION	CI PART NUMBER	CECOM NUMBER	SIMILAR TO QPL PART NUMBER	ADAPTOR ID (INCHES)	ADAPTOR OD (INCHES)	
		GC55181/1-AD0	A3316635-4	M55181/1			
AD0	Base Only	GC55181/3-AD0	A3316636-4	M55181/3	n/a	n/a	
		GC55181/7-AD0	A3316634-4	M55181/7			
		GC55181/1-AD1	A3316635-1	M55181/1		0.303	
454	Base + AD1 Adaptor	GC55181/3-AD1	A3316636-1	M55181/3	0.203		
AD1		GC55181/7-AD1	A3316634-1	M55181/7	0.203		
	AD1 Adaptor Only	33-18FG	n/a	n/a			
		GC55181/1-AD2	A3316635-2	M55181/1		0.007	
AD2	Base + AD2 Adaptor	GC55181/3-AD2	A3316636-2	M55181/3	0.297		
ADZ		GC55181/7-AD2	A3316634-2	M55181/7	0.297	0.397	
	AD2 Adaptor Only	33-19FG	n/a	n/a			
		GC55181/1-AD3	A3316635-3	M55181/1			
	Base + AD3 Adaptor	GC55181/3-AD3	A3316636-3	M55181/3	0.390	0.400	
AD3		GC55181/7-AD3	A3316634-3	M55181/7	0.390	0.490	
	AD3 Adaptor Only	33-20FG	n/a	n/a			

^{*}For specifications of the COTS Adaptor Series, see page 16.



GC55181/1-AD2



GC55181/7-AD3

Product Ordering - Communications Electronics Command (CECOM) Cross Reference

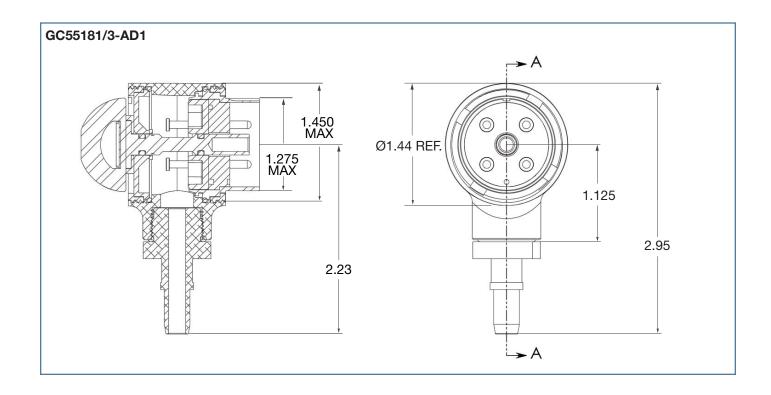
	CECOM CROSS REFERENCE TO CI PART NUMBER							
CECOM CABLE NUMBER	USE CI PART NUMBER	CECOM CONNECTOR NUMBER	SIMILAR TO QPL PART NUMBER	CABLE DIAMETER (INCHES)	ADAPTOR THROUGH DIA. (INCHES)	EXPORT EQUIVALENT		
A3014038-14	GC55181/7-AD1	A3316634-1	M55181/7-03	0.400	0.203	8164394-14		
A3014038-8	GC55181/7-AD1	A3316634-1	M55181/7-03	0.400	0.203			
A3014038-8	GC55181/7-AD1	A3316634-1	M55181/7-03	0.430	0.203	8164394-8		
A3014039-1	GC55181/1-AD2	A3316635-2	M55181/1-03	0.390	0.297			
A3014040-2	GC55181/1-AD2 & GC55181/3-AD2	A3316635-2 & A3316636-2	M55181/1-03 & M55181/3-03	0.420	0.297	8164396-2		
A3014040-4	GC55181/1-AD2, & GC55181/3-AD2	A3316635-2 & A3316636-2	M55181/1-03 & M55181/3-03	0.400	0.297	8164396-4		
A3014040-5	GC55181/1-AD2 & GC55181/3-AD2	A3316635-2 & A3316636-2	M55181/1-03 & M55181/3-03	0.420	0.297			
A3014041-1	GC55181/1-AD2	A3316635-2	M55181/1-03	0.395	0.297	8163430-1		
A3014042-1	GC55181/1-AD2	A3316635-2	M55181/1-03	0.395	0.297			
A3014043-1	GC55181/1-AD2	A3316635-2	M55181/1-03	0.435	0.297			
A3014043-6	GC55181/1-AD2	A3316635-2	M55181/1-03	0.435	0.297			
A3014044-1	GC55181/7-AD2	A3316634-2	M55181/7-03	0.435	0.297			
A3014044-6	GC55181/7-AD2	A3316634-2	M55181/7-03	0.435	0.297			
A3154857-1	GC55181/1-AD2 & GC55181/3-AD2	A3316635-2 & A3316636-2	M55181/3-03 & M55181/1-03	0.435	0.297			
A3191153-2	GC55181/1-AD2	A3316635-2	M55181/1-03	0.435	0.297			
SM-D-415553	GC55181/7-AD2	A3316634-2	M55181/7-03	0.435	0.297			

^{*}COTS plugs mate with 55181 receptacles. See Receptacles information on page 12.

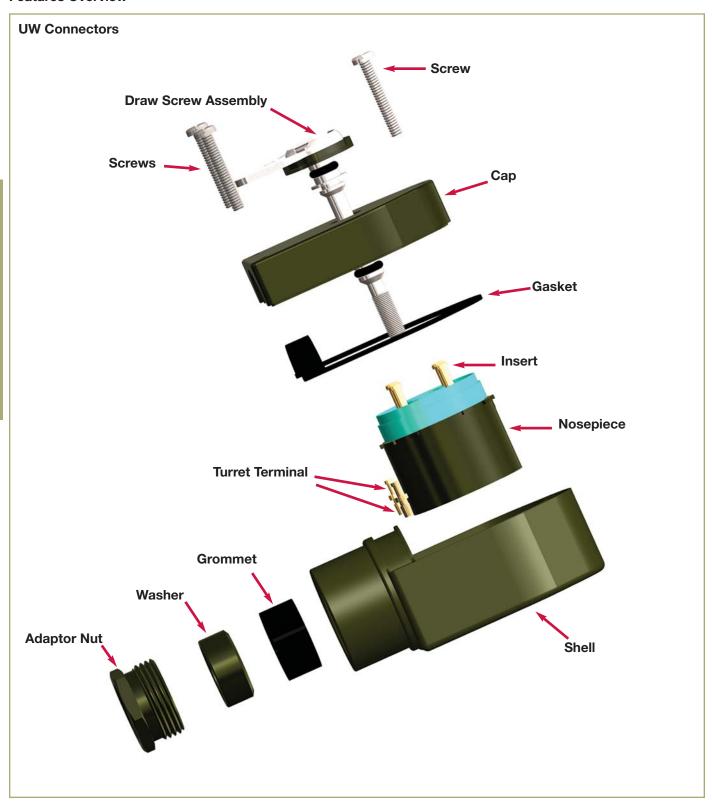








Features Overview



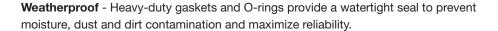


UW Connectors

The UW connectors meet all requirements of the MIL-DTL-12520 specification. These connectors are rugged, proven reliable, and are designed for power and control interconnections. Featured is a center-locking, double-lead screw for maximum reliability, with a fold-down, wing-blade handle. They are waterproof and can withstand the extreme range of environmental conditions encountered by ground support equipment.

Features and Benefits

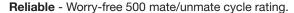
Versatile Configurations – Available in three plug shell sizes styles (small round, small cathedral and large cathedral). The UW series is available in 4-, 9-, 14-, 19-, and 30-contact versions configured to support cable-to-cable, cable-to-panel, and jam nut panel mounting.



Durable Construction – Time-tested, field-proven reliability for over 40 years. Corrosion-resistant, aluminum alloy receptacles and high-impact solid brass plug construction resist impact damage. Heat-tempered nosepiece is made of hardened alloy steel for enhanced impact protection in the event of mishandling.

Superior Electrical Connections - Precision contacts are gold over nickel providing positive electrical connection with minimum voltage drop.

Easy to Use - Receptacle and plug mating is accomplished quickly and easily by turning a center-locking, double lead screw with easy-to-grasp wing-blade handle. Vibration-resistant, secure locking mechanism will not back out.





UW power connectors support military communication systems.



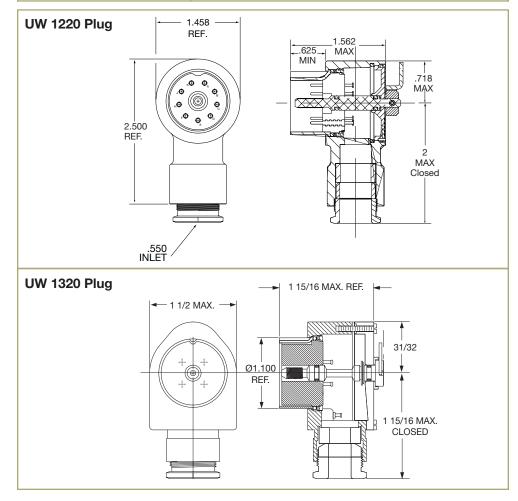
UW1326MD17



UW2020MA00

Specifications

ELECTRICAL			
Dielectric Strength			
4, 9 & 14 Contacts	2800 Volts RMS		
19 Contacts	2000 Volts RMS		
30 Contacts	1500 Volts RMS		
Insulation Resistance	1000 Megohms min. at 500 Volts DC		
Voltage Drop			
4 Contact	20 MV at 35 Amps		
9, 14 & 19 Contact	21 MV at 20 Amps		
30 Contacts	25 MV at 7.5 Amps		
	MECHANICAL		
Air Pressure	2.5 PSI		
Water Immersion	6 ft., 48 hours		
Durability	500 cycles with a coupling torque of 25 inlbs.		
Contact Retention	15 lbs.		
Insert Strength	400 lbs.		





Ordering Information - Part Numbering System

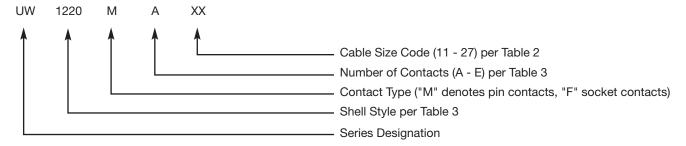


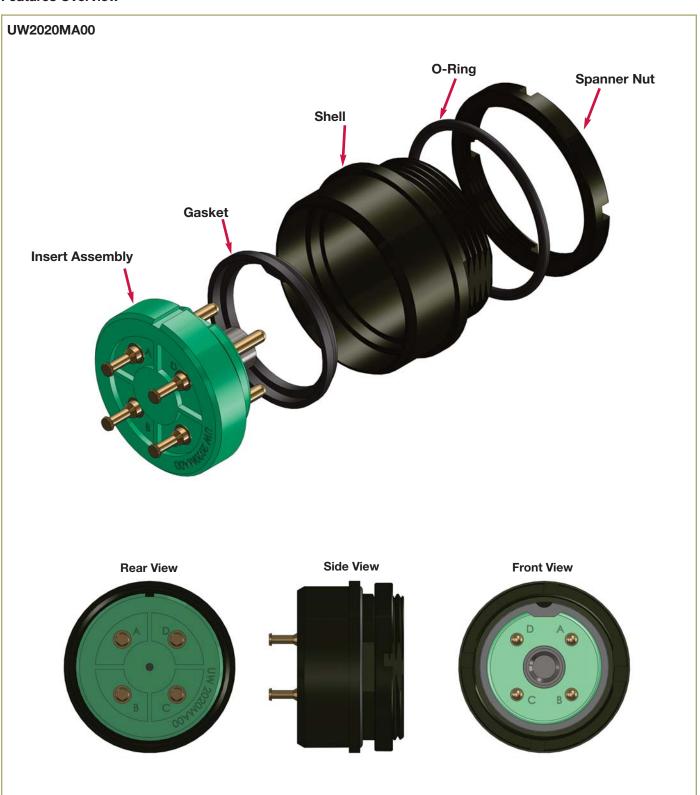
TABLE 1						
CI PART NUMBER	STYLE	CONTACT TYPE	MOUNTING STYLE	NUMBER OF CONTACTS (CODE LETTER)	CONTACT	
UW1220FAXX		Socket		4 (A)		
UW1220FBXX	Round Plug	Socket		9 (B)		
UW1220MAXX	Round Plug	Pin		4 (A)		
UW1220MBXX		Pin		9 (B)	12	
UW1320FAXX		Socket		4 (A)	12	
UW1320FBXX	Con all Cath adval Dive	Socket		9 (B)]	
UW1320MAXX	Small Cathedral Plug	Die	Cable	4 (A)		
UW1320MBXX		Pin	Cable	9 (B)		
UW1326FCXX				14 (C)	16	
UW1326FDXX		Socket		19 (D)	10	
UW1326FEXX	Laura Catha dual Diva			30 (E)	20	
UW1326MCXX	Large Cathedral Plug			14 (C)	- 16	
UW1326MDXX		Pin		19 (D)		
UW1326MEXX				30 (E)	20	
UW2020FA00		Socket		4 (A)		
UW2020FB00	One all December le	Socket		9 (B)	10	
UW2020MA00	Small Receptacle	Di-		4 (A)	12	
UW2020MB00		Pin		9 (B)	1	
UW2026FC00			Daniel .	14 (C)	10	
UW2026FD00	7	Socket	Panel	19 (D)	16	
UW2026FE00	T			30 (E)	20	
UW2026MC00	Large Receptacle		1	14 (C)	10	
UW2026MD00	7	Pin		19 (D)	16	
UW2026ME00				30 (E)	20	

	TABLE 2						
"XX" VALUE	CABLE DIAMETER (INCHES)	NUMBER OF CONTACTS					
11	0.292 to 0.343	4, 9					
13	0.323 to 0.406	4, 9					
15	0.386 to 0.486	4, 9					
17	0.448 to 0.531	4, 9					
19	0.511 to 0.593	4, 9, 14, 19, 30					
21	0.573 to 0.656	4, 9, 14, 19, 30					
23	0.636 to 0.718	14, 19, 30					
25	0.698 to 0.781	14, 19, 30					
27	0.761 to 0.843	14, 19, 30					

TABLE 3					
CONTACTS DESIGNATION SHELL STYLE DESIGNATION					
A = 4	1220	Round Plug			
B = 9	1320	Small Cathedral Plug			
C = 14	1326	Large Cathedral Plug			
D = 19	2020	Small Receptacle			

UW Power Receptacles

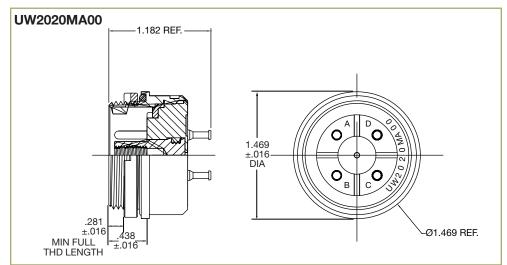
Features Overview



UW Power Receptacles

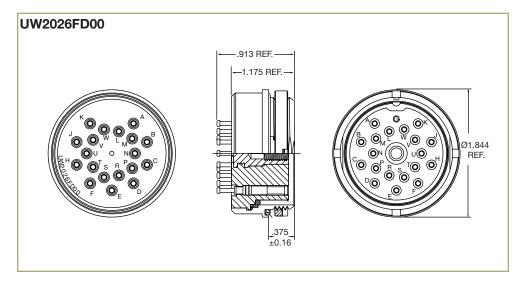


	UW RECEPTACLES							
CI PART NUMBER	NUMBER OF CONTACTS	TYPE	CONTACT TYPE	CONTACT SIZE	MOUNT	MATES WITH PLUG		
UW2020FA00	4		Caalcat					
UW2020FB00	9	0	Socket Pin			UW1220		
UW2020MA00	4	Small Receptacle		D:		12		UW1320 series
UW2020MB00	9				Demot			
UW2026FC00	14		Socket	10				
UW2026FD00	19			16	Panel			
UW2026FE00	30	l Dtl-		20		LIMO000		
UW2026MC00	14	Large Receptacle	Pin	16		UW2026 series		
UW2026MD00	19			10				
UW2026ME00	30			20				





UW2026FE00



Consult factory for additional information.

CI55181/3-03S

Stackable Power Connectors

Features and Benefits

Exclusive design allows multiple radios to draw power from a single M55181 receptacle.

Space-saving design eliminates the need for "Y" cables or other external power splitting apparatus.

Mates to standard M55181/4-01 and M55181/2-01 receptacles.

Accommodates any M55181/3 or /1 series plug from a second radio, no need to retrofit existing cables.

Robust aluminum housing, cadmium plate an olive drab chromate stand up to use in harsh environments.

Precision contacts, gold over nickel.

Same ruggedized features as QPL M55181 mid-range power connectors.

Worry-free 500 mate/unmate cycle rating.



CI55181/1-01S

Specifications

	MATERIALS AND FINISHES
Shells	
Plugs	Aluminum alloy body, steel alloy nosepiece 300u" cadmium plate with olive-drab chromate.
Contacts	
Socket	High-conductivity copper alloy with beryllium copper spring element, 30u" gold over 10-100u" nickel.
Pin	Yellow brass, 30u" gold over 50-100u" nickel.
Insulator	Glass-filled diallyl phthalate, type GDF-30 F or SDG-F.

ELECTRICAL				
Dielectric Strength				
4 Contacts	2000 Volts RMS			
9, 18 Contacts	1500 Volts RMS			
Insulation Resistance	1000 Megohms min. at 500 Volts DC			
Voltage Drop				
4 Contact	20 mV at 35 Amps			
9, 18 Contact	25 mV at 7.5 Amps			

MECHANICAL			
Air Pressure	2.5 PSI.		
Water Immersion	6 ft., 48 hours.		
Durability	500 cycles with a coupling torque of 25 inlbs.		
Contact Retention	10 lbs.		
Insert Strength	400 lbs.		



CI55181/3-03S



Ordering Information - Part Numbering System

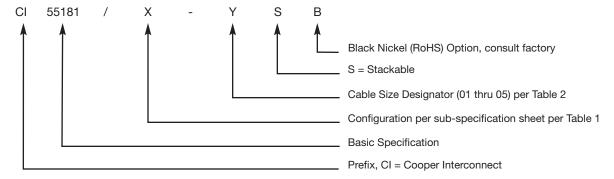


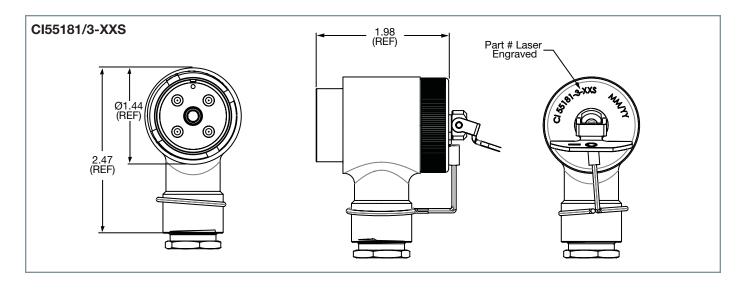
	TABLE 1							
CI GENERAL PART NUMBER	"X" VALUE	TYPE	MOUNT	CONTACT NUMBER		AMPS	CONTACT SIZE	TERMINATION
Cl55181/X-YS	1	Plug	Cable	4	Socket	35	12	Turret
Cl55181/X-YS	3	Plug	Cable	4	Pin	35	12	Turret
Cl55181/X-YS*	7	Plug	Cable	18	Pin	7.5	20	Soldercups

TABLE 2			
"Y" VALUE	CABLE DIAMETER (INCHES)		
01	.343/.292		
02	.406/.323		
03	.531/.448		
04	.593/.511		
05	.468/.386		

Mating Instructions

- 1. Mating to the receptacle is accomplished quickly and securely by turning the stackable M55181's drawscrew no additional tools or fasteners needed.
- 2. Back cap is removed by rotating cap counter-clockwise using the knurled section, exposing the secondary receptacle interface.
- 3. The ground power assembly is then mated in the traditional manner to the stackable connector.

For detailed termination instructions, request Assembly Instructions A1-001.





CI55181/1-DE-AD/XX

Dual Entry and Dual Header Stacking Connectors

Features and Benefits

DE (Dual Entry) provides two cable entry points into one housing for cable plugs (/1, /3, /5, /7). Available in 90° and 75° entry points.

DH (Dual Header) provides two mating faces (panel receptacles, /2, /4, /6, /8) within one connector. This enables a cable plug (/1, /3, /5, /7) to mate to each side.

Mates to standard mid-power (M55181/X, GC55181/X, and Cl55181/X) connectors and assemblies.

Robust aluminum housing, cadmium plate and olive drab chromate stand up to use in harsh environments.

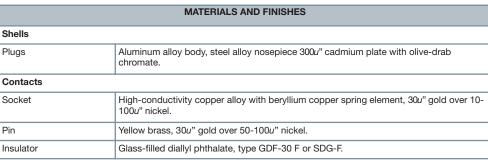
Precision contacts, gold over nickel.

Provides a lower cost alternative to the traditional "Y" cables. Provides greater flexibility in cable routing options.

Same ruggedized features as QPL 55181 mid-range power connectors.

Worry-free 500 mate/unmate cycle rating.

Specifications



ELECTRICAL				
Dielectric Strength				
4 Contacts	2000 Volts RMS.			
9, 18 Contacts	1500 Volts RMS			
Insulation Resistance	1000 Megohms Min. at 500 Volts DC.			
Voltage Drop				
4 Contact	20 mV at 35 Amps.			
9, 18 Contacts	25 mV at 7.5 Amps			

MECHANICAL				
Air Pressure	2.5 PSI.			
Water Immersion	6 ft., 48 hours.			
Durability	500 cycles with a coupling torque of 25 inlbs.			
Contact Retention	10 lbs.			
Insert Strength	400 lbs.			



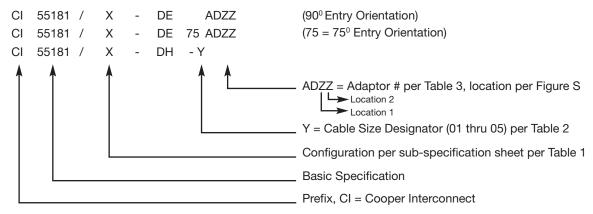
CI55181/8-DH-01



CI55181/8-DH-01



Ordering Information - Part Numbering System



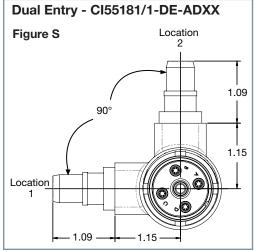
^{*}Example Part Number - CI55181/3-DEAD13

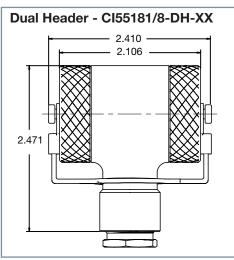
^{**}Note: For black nickel (RoHS) plating option, consult factory.

TABLE 1							
"X" VALUE	TYPE	MOUNT	CONTACT NUMBER	CONTACT TYPE	AMPS	CONTACT SIZE	TERMINATION
1	Plug	Cable	4	Socket	35	12	Turret
2	Receptacle	Panel	4	Pin	35	12	Turret
3	Plug	Cable	4	Pin	35	12	Turret
4	Receptacle	Panel	4	Socket	35	12	Turret
5	Plug	Cable	9	Pin	7.5	20	Solder Cup
6	Receptacle	Panel	9	Socket	7.5	20	Solder Cup
7	Plug	Cable	18	Pin	7.5	20	Solder Cup
8	Receptacle	Panel	18	Socket	7.5	20	Solder Cup

TABLE 2			
"Y" VALUE	CABLE DIAMETER (INCHES)		
01	.343/.292		
02	.406/.323		
03	.531/.448		
04	.593/.511		
05	.468/.386		

	TABLE 3	
Adaptor #	Adaptor ID	Adaptor OD
0	N/A	N/A
1	.203	.303
2	.297	.397
3	.390	.490





Consult factory for custom configurations.

CI55181/2-01SBN-03

SB Series Power Connectors

Features and Benefits

Exclusive straight backshell mid-range power connector allows cable mounting of M55181 panel mount receptacles.

Shielded ferrules enables termination of cable shields.

Mates to any M55181/1-, /3-, /5- or /7- series plug.

Sealed aluminum housing, cadmium plate and olive drab chromate for use in harsh environments. Also available in electroless nickel plating.

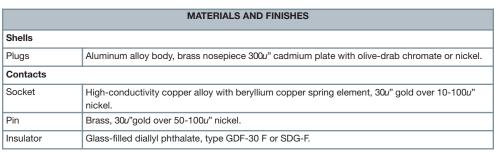
Gold over nickel contacts standard.

Mating is accomplished quickly and securely by turning the plug's drawscrew - no additional tools required.

Perfect for "Y" extension cables and other external power splitting apparatus.

Worry-free 500 mate/unmate cycle rating.

Specifications





CI55181/2-01SBE-03

ELECTRICAL				
Dielectric Strength				
4 Contacts	2000 Volts RMS			
9, 18 Contacts	1500 Volts RMS			
Insulation Resistance	1000 Megohms Min. at 500 Volts DC			
Voltage Drop				
4 Contact	20 mV at 35 Amps			
9, 18 Contacts	25 mV at 7.5 Amps			



CI55181/4-01SBE-03

MECHANICAL			
Air Pressure	2.5 PSI		
Water Immersion	6 ft., 48 hours		
Durability	500 cycles with a coupling torque of 25 inlbs.		
Contact Retention	10 lbs.		
Insert Strength	400 lbs.		



Ordering Information - Part Numbering System

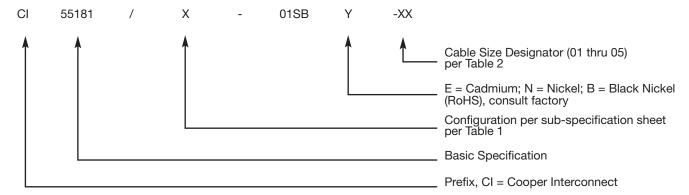
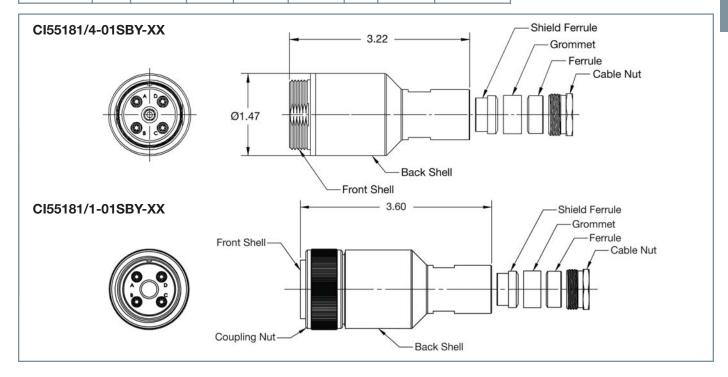


TABLE 1								
CI GENERAL PART NUMBER	"X" VALUE	TYPE	MOUNT	CONTACT NUMBER	CONTACT TYPE	AMPS	CONTACT SIZE	TERMINATION
Cl55181/1- Y*	1	Plug	Cable	4	Socket	35	12	Turret
Cl55181/2- Y*	2	Receptacle	Panel	4	Pin	35	12	Turret
Cl55181/3- Y*	3	Plug	Cable	4	Pin	35	12	Turret
Cl55181/4- Y*	4	Receptacle	Panel	4	Socket	35	12	Turret
Cl55181/5- Y*	5	Plug	Cable	9	Pin	7.5	20	Solder Cup
Cl55181/6- Y*	6	Receptacle	Panel	9	Socket	7.5	20	Solder Cup
Cl55181/7- Y*	7	Plug	Cable	18	Pin	7.5	20	Solder Cup
Cl55181/8- Y*	8	Receptacle	Panel	18	Socket	7.5	20	Solder Cup

TABLE 2				
XX" VALUE	CABLE DIAMETER (INCHES)			
01	.343/.292			
02	.406/.323			
03	.531/.448			
04	.593/.511			
05	.468/.386			



Filtered Connectors

Product Overview

When EMI (electromagnetic interference) issues arise, the 55181 Panel Mount connectors can be filtered to remove undesirable frequencies. The filters used are planar capacitors. Each filter surrounds the pin to be filtered and is connected to the shell for ground.

Features and Benefits

Same robust performance as the M55181 connectors.

Filter values designed to your specific requirements.

Available in all four panel mount configurations.

Contact the factory for your specific filtering requirements.





CI55181/2F3-103 CI55181/4F3-103



Dust Caps

Accessories

Cooper Interconnect offers dust caps for any MW20 power connector. All are manufactured to meet requirements of MIL-DTL-55181 and mounted to a panel with a .125 max. thickness. Custom dust caps available for Nuclear Biological Chemical (NBC) applications, consult factory for details.

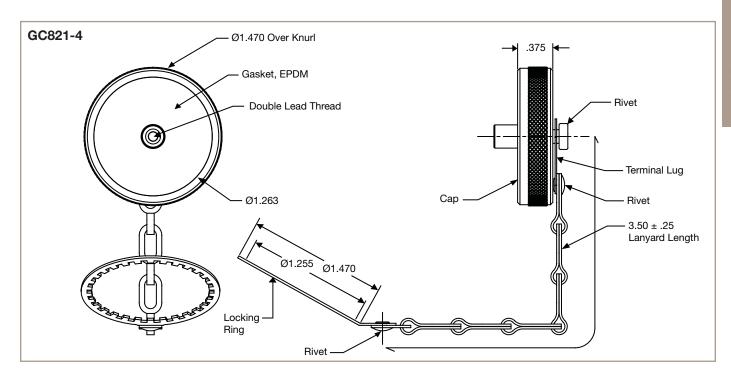
DUST CAPS					
CI PART NUMBERS	USED ON	LANYARD STYLE	LENGTH	END CONFIGURATION	
GC821	MW20 Power	Brass Chain	3.50"	1.255 ID Ring	
GC821-1	MW20 Power	Nylon Cord	3.50"	1.255 ID Ring	
GC821-3	MW20 Power	Brass Chain	6.00"	0.280 Dia. Loop	
GC821-4	MW20 Power	Brass Chain	2.25"	0.750 ID Ring	



GC821

Specifications

MATERIALS & FINISHES			
SHELL			
GC821			
GC821-3	Aluminum Alloy Shell, Cadmium Plate		
GC821-4			
GC821-1	Half Hard Brass Cad. Plate		



^{*}For black nickel (RoHS) plating option and additional options, contact the factory.



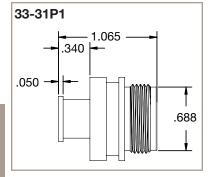
Custom Shield Adaptor

Custom 45° shield adaptor fits all the "adaptor" style cable plugs and provides a 45° cable exit. It can be configured to exit in any direction from the plug.

Consult factory for other custom shield adaptors and custom shield ferrule sets, similar to those used on the SB series. These are used on all the "non adaptor" type cable plugs.

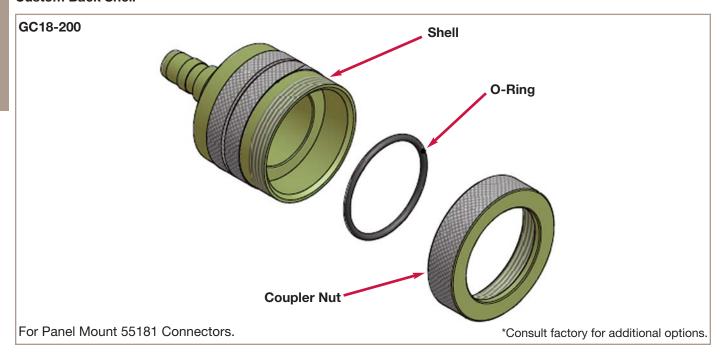
Cable Shield Adaptor

The mold adaptor, part #33-31P1, is a threaded adaptor that is attached to the M55181 shell. It is used in place of the standard rear end components as it provides an area to attach the cable shield by the use of a standard "band it" clamp. The assembly (M55181 and cable) is then placed in a mold creating an attractive and efficient shield and cable termination method which in some cases may prove to be more cost effective than the standard assembly methods.





Custom Back Shell



Assembly Instructions & Tools



Assembly Instructions

For all M55181/all, GC55181/all and Cl55181/all; see the appropriate MIL-DTL-55181 specification.

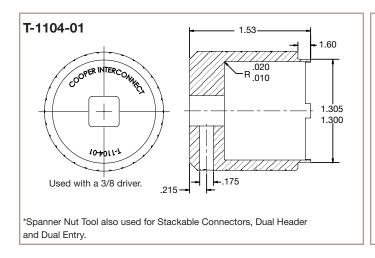
For the Stacking CI55181/X-YYS, please see Assembly Instructions A1-001. These may be obtained by request from info@cooperinterconnect.com.

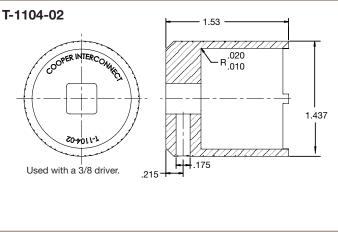
Spanner Nut Tool

CABLE MOUNT				
COOPER PART NUMBER	RECOMMENDED SPANNER NUT WRENCH FORCE	SPANNER NUT TOOL PART NUMBER		
M55181/1-0X				
GC55181/1-0X				
Cl55181/1-0X				
M55181/3-0X				
GC55181/3-0X				
Cl55181/3-0X				
	90-95" lbs	T-1104-01		
M55181/5-0X				
GC55181/5-0X				
CI55181/5-0X				
M55181/7-0X				
GC55181/7-0X				
CI55181/7-0X				

^{*}Recommended torque value for cable nut is 34-40" lbs.

PANEL MOUNT				
COOPER PART NUMBER	RECOMMENDED SPANNER NUT WRENCH FORCE	SPANNER NUT TOOL PART NUMBER		
M55181/2-01		T-1104-02		
M55181/4-01	21-23' lbs			
M55181/6-01				
M55181/8-01				





INNOVATION YOU CAN TRUST IN THE MOST CHALLENGING CONDITIONS

Cooper Interconnect is a leading supplier of high-end audio, data and power connectors for tactical communications platforms, assuring performance in mission-critical applications. Our engineering team designs reliable connectivity solutions critical to support a Network-Centric Battlefield. We deliver proven components to support integrated communications and operations in the global arena. Through leading-edge technology and a proven development process, we give you a proven interconnect solution for the sea, land, and air from the battlefield to home.



Audio & Data Connectors

Used for transmitting audio signals and control signals in harsh environments, these connectors are fully qualified to the military specifications **MIL-DTL-55116** and **MIL-DTL-10544**. Cooper Interconnect offers a standard line of audio connectors, and excels in developing custom configurations to resolve specific application needs, including the need for high-density connectivity in a small footprint, right-angles for cramped spaces, and extended audio connectors for armour feed thru applications to mate penetrator cables. Cooper Interconnect's line of data connectors come in a variety of packages and densities. The ever present drive for "smaller, lighter, faster", leads to new packages like our new Mini Data products (pictured example is less than 0.5" diameter).



GPS Connectors

Battle-field tested and fully ruggedized for military use, our GPS connectors are the product to depend on for today's unique radio applications. Machined shells of T6 aluminum provide excellent performance and resist impact damage. Precision signal and coax contacts assure optimal signal strength with minimal loss. Our unique shape for mating shells and inserts make for an exceptional seal, meeting military water immersion requirements. Cooper Interconnect offers panel mount GPS connectors with available mates, which fit most current military GPS systems.



Filtered Connectors

Superior communications support in the battlefield means ensuring protection against electro-magnetic (EMI) and radio frequency interference (RFI). Cooper Interconnect offers an extensive line of filtered connectors in both standard and custom configurations. Filtered connectors use both Planar and Surface Mount technologies in C, LC, PI, T or extended PI configurations. Our designs meet nearly every filtration need, with custom capacitances and testing protocols available.



Intercom Connectors

Cooper Interconnect's intercom connectors are an integral part of over 120,000 major military intercom systems deployed throughout the world. The metal and overmolded shell configurations are designed to fully meet the performance criteria for **MIL-DTL-26482** specifications while minimizing space on the intercom unit.



Antenna Connectors

Our battle-field tested, rugged antenna connectors enable a broader product options for today's radio/communication systems. The antenna connectors provide a sturdy and durable mount for whip and blade-type antennae on hand-held and man-pack radios. Cooper Interconnect's space-saving design fits into the demand for smaller hand-held radios. With our sure, secure contact mating every time, you don't have to worry about performance under the roughest conditions.



Battery Connectors

Cooper Interconnect's battery connectors provide a secure connection when it's needed most. We design to demanding military and industrial standards, or can develop a custom configuration to solve your unique battery connection requirements. Standard chromate coating over 6061-T6 aluminum alloy shells and non-hermetic sealing withstands up to 15 PSI for optimal operation in rigorous applications.



55181 Mid-Range Power Connectors are Manufactured at

Cooper Interconnect

P: 856-935-7560 F: 856-935-0102

Contact Customer Service for general inquiries, orders, or quotes.

P: 1-800-840-0502

Inquiries: cicustomer.service@cooperindustries.com

Orders: ciorders@cooperindustries.com Quotes: cirfq@cooperindustries.com

Other Cooper Interconnect Locations

Cooper Interconnect

750 West Ventura Boulevard Camarillo, CA 93010 P: 805-484-0543

F: 805-987-5062

Cooper Interconnect 222 Williams Street

Chelsea, MA 02150 P: 617-889-3700 F: 617-889-6980

Cooper Interconnect

4758 Washington Street LaGrange, NC 28551 P: 252-566-3014 F: 252-566-9337

Cooper Interconnect

975 N Industrial Park Ave. Suite A Nogales, AZ 85621 P: (01152) 631-311-8120 F: (01152) 631-320-1024

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