



PWF00/MS3120
Wall Mount Receptacle



PWF01/MS3121
In-Line Receptacle



PWF02/MS3122
Box Mount Receptacle



PWF06/MS3126
Straight Plug

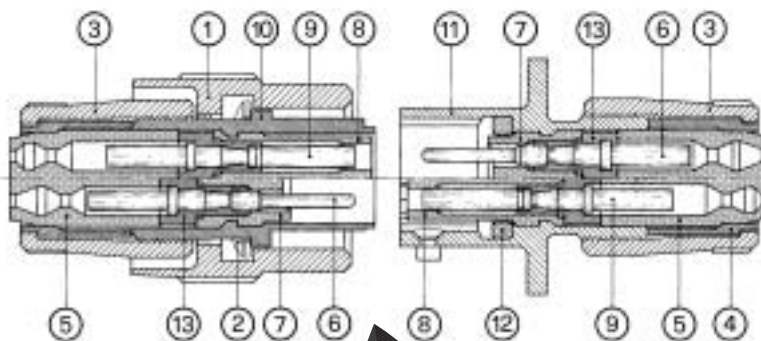


PWF07/MS3124
Jam Nut Receptacle
(Environmental)

Array PWF Series

Crimp/Bayonet Coupling Connectors

MIL-C-26482, Series I Crimp
Commercial and Military QPL'd



- 1) Coupling nut
- 2) Wave washer
- 3) Back shell
- 4) Compression sleeve
- 5) Grommet
- 6) Pin contact
- 7) Pin insert
- 8) Socket insert
- 9) Socket contact
- 10) Plug shell
- 11) Receptacle shell
- 12) Gasket
- 13) Contact retention disk

Nine shell sizes are available and twenty-four insert arrangements with both pin and socket contacts.



PWF/MS Receptacle and Plug Connectors



ARRAY CONNECTOR CORPORATION
Design Solutions ISO 9001

US Headquarters And Manufacturing Facilities:
12555 S. W. 130th Street • Miami, FL 33186

Phone: (305) 234-1000 • Fax: (305) 234-6601 • www.arrayconnector.com



Array PWF Series

Crimp/Bayonet Coupling Connectors MIL-C-26482, Series I Crimp Commercial and Military QPL'd

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FEATURES

Array's PWF family of connectors meet or exceed the requirements of MIL-C-26482 Series I Crimp and are listed in the U.S. Department of Defense Qualified Parts List. These connectors are available in 9 shell sizes and 24 insert arrangements, all interchangeable and interchangeable with connectors produced in accordance with MIL-C-26482 Series I and Series II. Standard contact termination is by crimping using standard crimp tools: either automated wire stripping and crimping machines or manually with the use of hand crimping tools. Contact insertion and extraction is also accomplished with the use of standard tools.

Designed for wire sizes AWG 16 through 24, these highly durable connectors are used in wide variety of applications including aerospace, military equipment, machine tools, robotics, communications, medical equipment, automation equipment, and industrial sensors to name just a few.

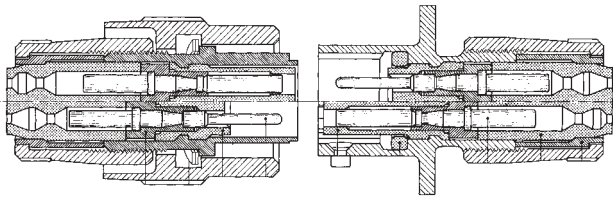
Shells and hardware are made of high strength aluminum alloys and are available with a variety of plated or anodized finishes. Contacts are machined from solid copper alloy and gold plated in accordance with MIL-G-45204 type II. With a standard operating temperature range of -55°C to +125°C available with a variety of accessories and features, Array's PWF series is widely called out by design engineers and specifiers seeking reliability and durability throughout a broad range of environmental requirements.

Array Connector Corporation produces high quality products. These products are intended to be used in accordance with the specifications described in this catalog. Any use or application that deviates from the stated operating specifications is not recommended and may be unsafe. A limited warranty is applicable. Except for obligations assumed by Array Connector Corporation under warranty, Array will be not be liable for any loss, damage, repairs, incidental or consequential damages of any kind, whether or not based upon expressed or implied warranty, contract, negligence, or liability arising from the application or manufacture or repair of these products. This catalog is not a contractual offering; it is for informational purposes only.

Product Data

Electrical

Contact Termination		(PWF) Crimp			
Number of Contacts		3 to 61			
Wire Size, AWG		16 to 24			
Wire Range Accomodations		Insulation O.D. Limits			
Contact Size AWG Wire Size		Min.		Max.	
20	24, 22 and 20	.066 (1.52)		.083 (2.11)	
16	20, 18 and 16	.066 (1.68)		.109 (2.77)	
Contact Rating					
Contact Size	Rated Amps	Test current		Max. Millivolt Drop	
20	7.5	7.5		55	
16	13.0	13.0		49	
Voltage Rating					
Altitude	Service Rating	Test Voltage		Max. Working Voltage	
		AC(rms)	DC	AC(rms)	DC
Sea Level	1	1500	2100	600	850
	2	2300	3200	1000	1400
70,000 ft.	1	375	535	300	510
	2	500	770	450	740



Engaging Face-Pin Inserts



Polarization

The diagrams indicate alternate insert positions. The five positions (W, X, Y, Z and Normal) differ in degree of rotation for various size and layouts. The exact angle of rotation for the combinations are listed in the table below.

Shell Size	Layout	Position			
		W	X	Y	Z
8	3A	60°	-	-	-
	33	90°	-	-	-
10	6	90°	-	-	-
	7	90°	-	-	-
12	3	-	-	180°	-
	8	90°	112°	203°	292°
	10	60°	155°	270°	295°
14	5	40°	92°	184°	273°
	12	43°	90°	-	-
	15	17°	110°	155°	234°
	18	15°	90°	180°	270°
	19	30°	165°	315°	-

Shell Size	Layout	Position			
		W	X	Y	Z
16	8	54°	152°	180°	331°
	23	158°	270°	-	-
	26	60°	-	275°	338°
18	11	62°	119°	241°	340°
	32	85°	138°	222°	265°
20	16	238°	318°	333°	347°
	39	63°	144°	252°	333°
	41	45°	126°	225°	-
22	21	16°	135°	175°	349°
	41	39°	135°	264°	-
	55	30°	142°	226°	314°
24	61	90°	180°	270°	324°

Note: for polarization data for the other contact arrangements, consult factory.

Standard Material and Finishes

Shell (Mil-Std)	Aluminum alloy, conductive olive drab chromate over cadmium finish per QQ-P-416. (Consult Factory for Commercial options.)
Insulator	Synthetic Rubber
Grommet and Seal	Synthetic Rubber
Contacts	Cooper alloy, gold plate per MIL-G-45204 type II.
Temperature Range	-55°C to +125°C

Mechanical

Shell Styles	00 - Wall mounting receptacle 01 - Cable in line receptacle 02 - Box mounting receptacle 06 - Straight plug 07 - Jam nut receptacle 08 - 90° Angle plug
Shell Size	8 thru 24
Polarization/Coupling	Five keyway/three point bayonet locking.
Service Classes	E - Grommet seal F - Grommet seal with strain relief N - No back end, no termination hardware P - Potted

Nomenclature Guide

Example

#1	PWF	06	E	22-	55	P	Y	K001**
#2	PWF	*6	E	22-	55	P	Y	
#3	MS	3126	E	22-	55	P	Y	

SERIES PREFIX
PWF = ARRAY
MS = MILITARY

SHELL SIZE
00 = wall receptacle
01 = in-line receptacle
02 = box mount receptacle
06 = straight plug
07 = jam nut mount receptacle
08 = 90° plug

SERVICE TYPE (Class)
E = grommet seal
F = same as E with strain relief
P = potting shell
N = no back end, threaded with no cable termination hardware

SHELL SIZE
0 thru 24 available

MODIFICATION CODES
A602 = Black Anodize Plating
A610 = Aluminate Plating
A611 = Nickel Plating
A612 = Electroless Nickel Plating
A617 = Tin Plating
F602 = Clinch Nuts
M901 = Stainless Steel Construction
** For modification codes not listed, consult factory

POLARIZATION
(See Chart, page 3)

CONTACT TYPE
P = pins
S = sockets
A = pin less contacts
B = socket less contacts

CONTACT ARRANGEMENT
(See page 5)

*NOTE: When modification to a standard plug or receptacle is required, delete the "0" between the PWF and the "6" as in example #2.

Cross Reference

MIL SPEC PART NOS.	LEADING SUPPLIERS' COMMERCIAL EQUIVALENT					
	ARRAY	AMPHENOL-BENDIX	CANNON	FCI/BURNDY	SOURIAU	VEAM
MS3120E*	PWF00E*	PT00SE*	KPSE00E*	L*TE*O*A	851-00R*50*	VPT00SE*
MS3120F*	PWF00F*	PT00SE*(SR)	KPSE00F*	L*TF*O*A	851-00RC*50	VPT00SE*(SR)
MS3120P*	PWF00P*	PT00SP*	KPSE00P*	L*TP*O*A	851-00RP*50	VPT00SP*
MS3121E*	PWF01E*	PT01SE*	KPSE01E*	L*TE*1*A	851-01R*50	VPT01SE*
MS3121F*	PWF01F*	PT01SE*(SR)	KPSE01F*	L*TF*1*A	851-01RC*50	VPT01SE*(SR)
MS3121P*	PWF01P*	PT01SP*	KPSE01P*	L*TP*1*A	851-01RP*50	VPT01SP*
MS3122E*	PWF02E*	PT02SE*	KPSE02E*	L*TE*2*A	851-02R*50	VPT02SE*
MS3124E*	PWF07E*	PT07SE*	KPSE07E*	L*TE*4*A	851-07R*50	VPT07SE*
MS3124F*	PWF07F*	PT07SE*(SR)	KPSE07F*	L*TF*4*A	851-07RC*50	VPT07SE*(SR)
MS3124P*	PWF07P*	PT07SP*	KPSE07P*	L*TP*4*A	851-07RP*50	VPT07SP*
MS3126E*	PWF06E*	PT06SE*	KPSE06E*	L*TE*6*A	851-06R*50	VPT06SE*
MS3126F*	PWF06F*	PT06SE*(SR)	KPSE06F*	L*TF*6*A	851-06RC*50	VPT06SE*(SR)
MS3126P*	PWF06P*	PT06SP*	KPSE07P*	L*TP*6*A	851-06RP*50	VPT06SP*
~~~~~	PWF08*	PT08SE*	KPSE08*		851-08RP*50	VPT08SE*
	90° Cable Entry Plug (No MS drawing. Do not confuse with MS3128)					
~~~~~	PWF**N*	PT03/4/5SE*	KPSE03/4/5*			
	No rear accessories (Commercial part numbering only)					
MS3127E*	PWF05*	MF02S*	KP27E*	L*TE*7*A		
Box Mount, Special Large Flange (Special)						
MS3128E*	PWF04*	MF00SE*	KP28E*	L*TE*8*A		
Wall Mount, Special Wide Flange (Special)						

NOTES:

1. Souriau is "commercial only". Not on QPL.
2. For MS connectors "without contacts", include "less contacts" after the complete connector MS number. The MS number does not change.
3. Connectors per MS have spare contacts and sealing plugs. Connectors per supplier's commercial part number do not have these additional parts.

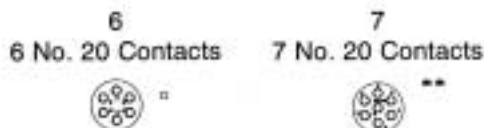
Contact Arrangement (Engaging Face of Pin Insert)

(For contact arrangements not shown, contact factory)

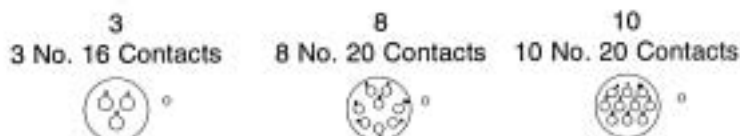
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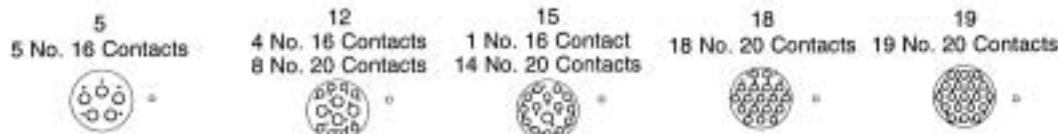
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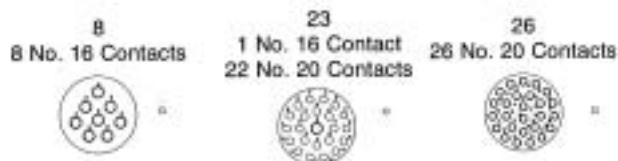
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16



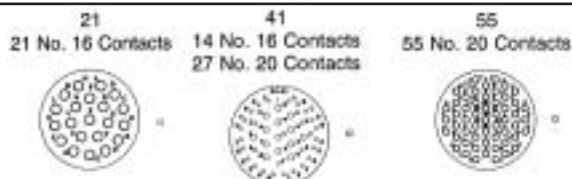
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20



22



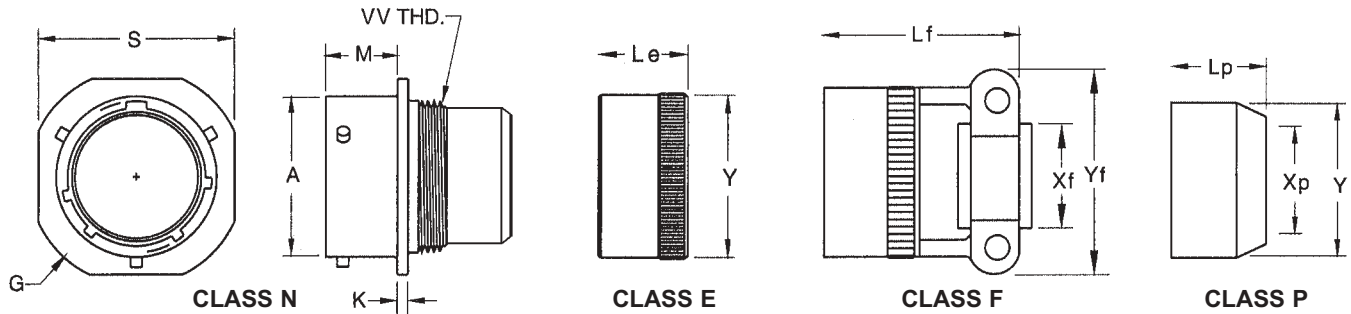
24



** Commercial arrangement.

° MIL-C-26482 Series 1 Contact arrangements, per MIL-STD-1669

Series PWF00/MS3120 Wall Mount Receptacle



Application: Wall Mounting Connector.

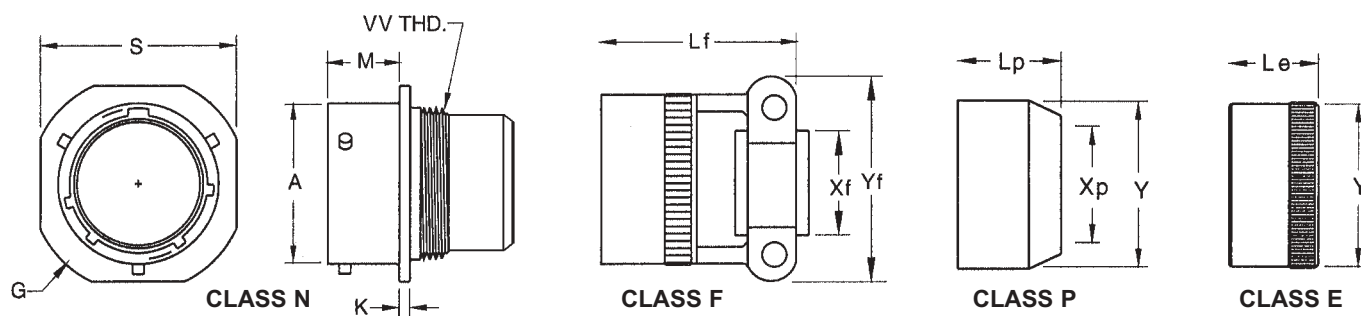
Note: L* = Total connector length including cable accessory.

DIMENSIONS IN INCHES

SHELL SIZE	Xf MIN.	Xp MIN.	K ± .016	Y MAX.	Yf MAX.	M +.031 -.000	A ±.003	S MAX.	T ±.005	V V THREAD CLASS 2A
8	.234	.317	.062	.608	.828	.431	.471	.828	.120	7/16-28 UNEF
10	.297	.434	.062	.734	.891	.431	.588	.954	.120	9/16-24 UNEF
12	.422	.548	.062	.858	1.016	.431	.748	1.047	.120	11/16-24 UNEF
14	.547	.673	.062	.984	1.141	.431	.873	1.141	.120	13/16-20 UNEF
16	.609	.798	.062	1.110	1.203	.431	.998	1.234	.120	15/16-20 UNEF
18	.734	.899	.062	1.234	1.469	.431	1.123	1.328	.120	1 1/16-18 UNEF
20	.734	1.024	.094	1.360	1.469	.556	1.248	1.453	.120	1 3/16-18 UNEF
22	.922	1.149	.094	1.484	1.656	.556	1.373	1.578	.120	1 5/16-18 UNEF
24	.984	1.274	.094	1.610	1.750	.589	1.498	1.703	.147	1 7/16-18 UNEF

DIMENSIONS IN MILLIMETERS

SHELL SIZE	Xf MIN.	Xp MIN.	K ± .406	Y MAX.	Yf MAX.	M +.787 -.000	A ± .076	S MAX.	T ± .127	V V THREAD CLASS 2A
8	5.95	8.05	1.57	15.44	21.03	10.95	11.99	21.03	3.05	7/16-28 UNEF
10	7.54	11.02	1.57	18.64	22.63	10.95	14.94	24.23	3.05	9/16-24 UNEF
12	10.72	13.92	1.57	21.79	25.81	10.95	19.00	26.59	3.05	11/16-24 UNEF
14	13.89	17.09	1.57	24.99	28.98	10.95	22.17	28.98	3.05	13/16-20 UNEF
16	15.47	20.27	1.57	28.19	30.56	10.95	25.35	31.34	3.05	15/16-20 UNEF
18	18.64	22.83	1.57	31.34	37.31	10.95	28.52	33.73	3.05	1 1/16-18 UNEF
20	18.64	26.01	2.39	34.54	37.31	14.12	31.70	36.91	3.05	1 3/16-18 UNEF
22	23.42	29.18	2.39	37.82	42.06	14.12	34.27	40.08	3.05	1 5/16-18 UNEF
24	24.99	32.26	2.39	40.89	44.45	14.96	38.05	43.26	3.73	1 7/16-18 UNEF



Application: Cable-To-Cable Connector (suggested mates are PWF06/MS3126).

Note: L* = Total connector length including cable accessory.

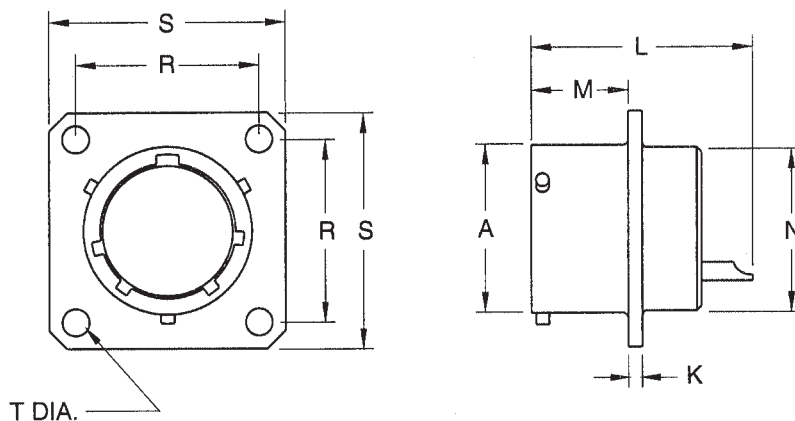
DIMENSIONS IN INCHES

SHELL SIZE	Xf MIN.	Xp MIN.	K ± .010	Y MAX.	Yf MAX.	M +.031 -.000	A ± .003	G ± .020	S MAX.	V V THREAD CLASS 2A
8	.234	.317	.094	.608	.828	.400	.471	.938	.828	7/16-28 UNEF
10	.297	.434	.094	.734	.891	.400	.588	1.062	.954	9/16-24 UNEF
12	.422	.548	.094	.858	1.016	.400	.748	1.156	1.047	11/16-24 UNEF
14	.547	.673	.094	.984	1.141	.400	.873	1.250	1.141	13/16-20 UNEF
16	.609	.798	.094	1.110	1.203	.400	.998	1.344	1.234	15/16-20 UNEF
18	.734	.899	.094	1.234	1.469	.400	1.123	1.438	1.328	1 1/16-18 UNEF
20	.734	1.024	.115	1.360	1.469	.535	1.248	1.562	1.453	1 3/16-18 UNEF
22	.922	1.149	.115	1.484	1.656	.535	1.373	1.688	1.578	1 5/16-18 UNEF
24	.984	1.274	.115	1.610	1.750	.568	1.498	1.812	1.70	1 7/16-18 UNEF

DIMENSIONS IN MILLIMETERS

SHELL SIZE	Xf MIN.	Xp MIN.	K ± .254	Y MAX.	Yf MAX.	M +.787 -.000	A ± .076	G ± .508	S MAX.	V V THREAD CLASS 2A
8	5.94	8.05	2.39	15.44	21.03	10.16	11.99	21.03	3.05	7/16-28 UNEF
10	7.54	11.02	2.39	18.64	22.63	10.16	14.94	24.23	3.05	9/16-24 UNEF
12	10.72	13.92	2.39	21.79	25.81	10.16	19.00	26.59	3.05	11/16-24 UNEF
14	13.89	17.09	2.39	24.99	28.98	10.16	22.17	28.98	3.05	13/16-20 UNEF
16	15.47	20.27	2.39	28.19	30.56	10.16	25.35	31.34	3.05	15/16-20 UNEF
18	18.64	22.83	2.39	31.34	37.31	10.16	28.52	33.73	3.05	1 1/16-18 UNEF
20	18.64	26.01	2.92	34.54	37.31	13.59	31.70	36.91	3.05	1 3/16-18 UNEF
22	23.42	29.18	2.92	37.82	42.06	13.59	34.27	40.08	3.05	1 5/16-18 UNEF
24	24.99	32.26	2.92	40.89	44.45	14.43	38.05	43.26	3.73	1 7/16-18 UNEF

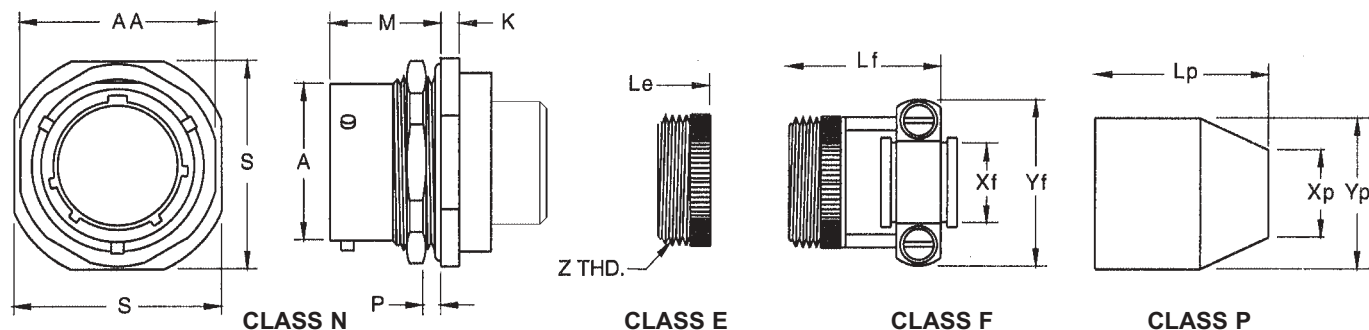
Series PWF02/MS3122 Box Mount Receptacle



Application: Box Mount Receptacle.

DIMENSIONS IN INCHES								
SHELL SIZE	A ±.003	K ± .010	L MAX.	M +.031 -.000	N ± .015	R (Tp)	S MAX.	T ± .005
8	.471	.062	1.320	.431	.438	.594	.828	.120
10	.588	.062	1.320	.431	.558	.719	.954	.120
12	.748	.062	1.320	.431	.688	.812	1.047	.120
14	.873	.062	1.320	.431	.812	.906	1.141	.120
16	.998	.062	1.320	.431	.938	.969	1.234	.120
18	1.123	.062	1.320	.431	1.062	1.062	1.328	.120
20	1.248	.094	1.367	.556	1.188	1.156	1.453	.120
22	1.373	.094	1.367	.556	1.312	1.250	1.578	.120
24	1.498	.094	1.418	.589	1.438	1.375	1.703	.147

DIMENSIONS IN MILLIMETERS								
SHELL SIZE	A ± .076	K ± .254	L MAX.	M +.787 -.000	N ± .381	R (Tp)	S MAX.	T ± .127
8	12.01	1.57	33.53	10.95	11.13	15.09	21.03	3.05
10	14.99	1.57	33.53	10.95	14.27	18.26	24.23	3.05
12	19.05	1.57	33.53	10.95	17.48	20.62	26.59	3.05
14	22.23	1.57	33.53	10.95	20.62	23.01	28.98	3.05
16	25.40	1.57	33.53	10.95	23.83	24.61	31.34	3.05
18	28.58	1.57	33.53	10.95	26.97	26.97	33.73	3.05
20	31.75	2.39	34.72	14.12	30.18	29.36	36.91	3.05
22	34.93	2.39	34.72	14.12	33.32	31.75	40.08	3.05
24	38.10	2.39	36.02	14.96	36.53	34.93	43.26	3.73



Application: Jam Nut Mounting with O-ring to D-shaped Chassis Hole. (See panel cutout dimensions on page 6.)

Note: L* = Total connector length including cable accessory.

DIMENSIONS IN INCHES

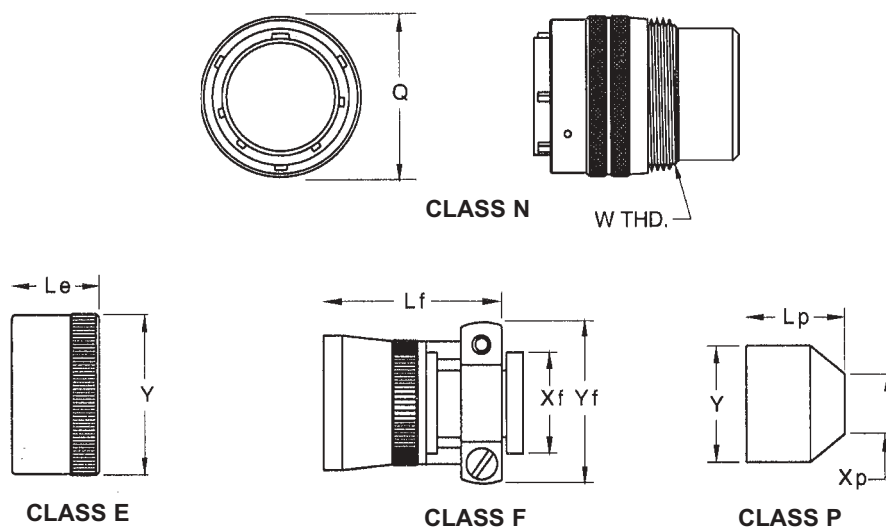
SHELL SIZE	Xf MIN.	P		Xp MIN.	K ±.020	Yf MAX.	Yp MAX.	Le MAX.	Lf MAX.	Lp MAX.	M $\begin{smallmatrix} +.031 \\ -.000 \end{smallmatrix}$	A ±.003	AA MAX.	S MAX.	Z THREAD
		MIN.	MAX.												
8	.234	.062	.125	.317	.117	.828	.608	1.547	2.422	1.675	.691	.471	.767	.954	5/8-24 UNEF
10	.297	.062	.125	.434	.117	.891	.734	1.547	2.422	1.675	.691	.588	.892	1.078	3/4-20 UNEF
12	.422	.062	.125	.548	.117	1.016	.858	1.547	2.422	1.675	.691	.748	1.079	1.266	7/8-20 UNEF
14	.547	.062	.125	.673	.117	1.141	.984	1.547	2.422	1.675	.691	.873	1.205	1.391	1-20 UNEF
16	.609	.062	.125	.798	.117	1.203	1.110	1.547	2.537	1.675	.691	.998	1.329	1.516	1 1/8-18 UNEF
18	.734	.062	.125	.899	.117	1.469	1.234	1.547	2.537	1.675	.691	1.123	1.455	1.641	1 1/4-18 UNEF
20	.734	.062	.250	1.024	.148	1.469	1.360	1.709	2.824	1.963	.879	1.248	1.579	1.828	1 3/8-18 UNEF
22	.922	.062	.250	1.149	.148	1.656	1.484	1.709	2.824	1.963	.879	1.373	1.705	1.954	1 1/2-18 UNEF
24	.984	.062	.250	1.274	.148	1.750	1.610	1.709	2.900	2.025	.912	1.498	1.829	2.078	1 5/8-18 UNEF

DIMENSIONS IN MILLIMETERS

SHELL SIZE	Xf MIN.	P		Xp MIN.	K ±.508	Yf MAX.	Yp MAX.	Le MAX.	Lf MAX.	Lp MAX.	M $\begin{smallmatrix} +.787 \\ -.000 \end{smallmatrix}$	A ±.076	AA MAX.	S MAX.	Z THREAD
		MIN.	MAX.												
8	5.94	1.57	3.18	8.05	2.97	21.03	15.44	39.29	61.52	42.55	17.90	11.99	19.48	24.23	5/8-24 UNEF
10	7.54	1.57	3.18	11.02	2.97	22.63	18.64	39.29	61.52	42.55	17.90	14.94	22.66	27.38	3/4-20 UNEF
12	10.72	1.57	3.18	13.92	2.97	25.81	21.79	39.29	61.52	42.55	17.90	19.00	27.41	32.16	7/8-20 UNEF
14	13.89	1.57	3.18	17.09	2.97	29.98	24.99	39.29	61.52	42.55	17.90	22.17	30.61	35.33	1-20 UNEF
16	15.47	1.57	3.18	20.27	2.97	30.56	28.19	39.29	64.44	42.55	17.90	25.35	33.76	38.51	1 1/8-18 UNEF
18	18.64	1.57	3.18	22.83	2.97	37.31	31.34	39.29	64.44	42.55	17.90	28.52	36.96	41.68	1 1/4-18 UNEF
20	18.64	1.57	6.35	26.01	3.76	37.31	34.54	43.41	71.73	49.86	22.68	31.70	40.11	46.43	1 3/8-18 UNEF
22	23.42	1.57	6.35	29.18	3.76	42.06	39.69	43.41	71.73	49.86	22.68	34.87	43.31	49.63	1 1/2-18 UNEF
24	24.99	1.57	6.35	32.36	3.76	44.45	40.89	43.41	73.66	51.44	23.52	38.05	46.46	52.78	1 5/8-18 UNEF

Series PWF06/MS3126

Straight Plug



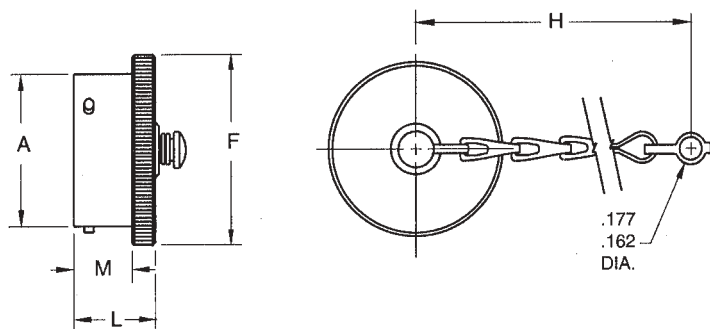
Application: Straight Plug Connector, General Cable Coupling.

Note: L* = Total connector length including cable accessory.

DIMENSIONS IN INCHES									
SHELL SIZE	Xf MIN.	Xp MIN.	Y MAX.	Yf MAX.	Le MAX.	Lf MAX.	Lp MAX.	Q MAX.	V V THREAD
8	.234	.317	.608	.828	1.513	2.413	1.750	.782	7/16-28 UNEF
10	.297	.434	.734	.891	1.513	2.413	1.750	.926	9/16-24 UNEF
12	.422	.548	.858	1.016	1.513	2.413	1.750	1.043	11/16-24 UNEF
14	.547	.673	.984	1.141	1.513	2.413	1.750	1.183	13/16-20 UNEF
16	.609	.798	1.110	1.203	1.513	2.528	1.750	1.305	15/16-20 UNEF
18	.734	.899	1.234	1.469	1.513	2.528	1.750	1.391	1 1/16-18 UNEF
20	.734	1.024	1.360	1.469	1.638	2.753	1.892	1.531	1 3/16-18 UNEF
22	.922	1.149	1.484	1.656	1.638	2.753	1.892	1.656	1 5/16-18 UNEF
24	.984	1.274	1.610	1.750	1.638	2.830	1.892	1.777	1 7/16-18 UNEF

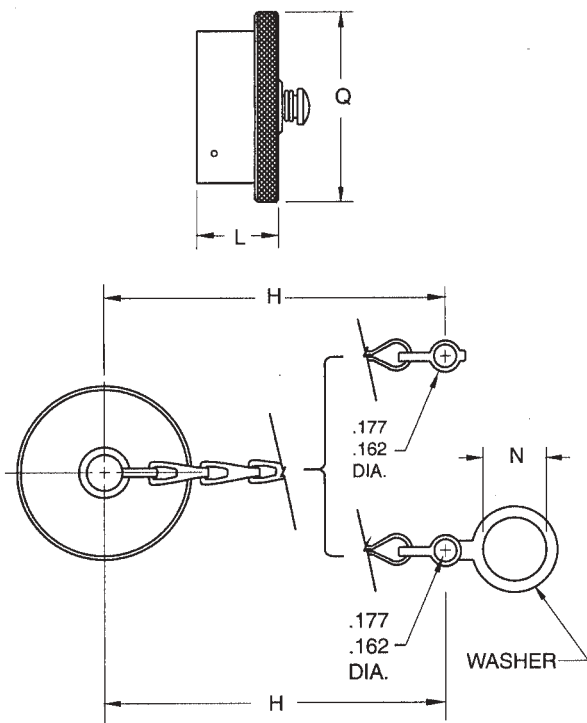
DIMENSIONS IN MILLIMETERS									
SHELL SIZE	Xf MIN.	Xp MIN.	Y MAX.	Yf MAX.	Le MAX.	Lf MAX.	Lp MAX.	Q MAX.	V V THREAD
8	5.94	8.05	15.44	21.03	38.43	61.29	44.45	19.86	7/16-28 UNEF
10	7.54	11.02	18.64	22.63	38.43	61.29	44.45	23.52	9/16-24 UNEF
12	10.72	13.92	21.79	25.81	38.43	61.29	44.45	26.49	11/16-24 UNEF
14	13.89	17.09	24.99	28.98	38.43	61.29	44.45	30.05	13/16-20 UNEF
16	15.47	20.27	28.19	30.56	38.43	64.21	44.45	33.15	15/16-20 UNEF
18	18.64	22.83	31.34	37.31	38.43	64.21	44.45	35.33	1 1/16-18 UNEF
20	18.64	26.01	34.54	37.31	41.61	69.93	48.06	38.89	1 3/16-18 UNEF
22	23.42	29.18	37.82	42.06	41.61	69.93	48.06	42.06	1 5/16-18 UNEF
24	24.99	32.26	40.89	44.45	41.61	71.88	49.61	45.14	1 7/16-18 UNEF

(MS 3180)



Part No. PW80-** or MS3180-**
**="Dash Number"

(MS 3181)



Part No. PW81-** or MS3181-**
**="Dash Number"

DIMENSIONS IN INCHES

SHELL SIZE	DASH NO.		A +.001 -.005	F MAX.	H ±.25	L MAX.	M ±.010
	WITHOUT CHAIN	WITH CHAIN					
8	G1	G11	.473	.719	3.00	.562	.378
10	G2	G12	.590	.844	3.00	.562	.378
12	G3	G13	.750	1.000	3.50	.562	.378
14	G4	G14	.875	1.125	3.50	.562	.378
16	G5	G15	1.000	1.250	3.50	.562	.378
18	G6	G16	1.125	1.375	3.50	.562	.378
20	G7	G17	1.250	1.500	4.00	.625	.440
22	G8	G18	1.375	1.625	4.00	.625	.440
24	G9	G19	1.500	1.750	4.00	.658	.473

DIMENSIONS IN MILLIMETERS

SHELL SIZE	DASH NO.		A +.03 -.13	F MAX.	H ±6.35	L MAX.	M ±.25
	WITHOUT CHAIN	WITH CHAIN					
8	G1	G11	12.01	18.28	76.20	14.27	9.60
10	G2	G12	14.98	21.41	76.20	14.27	9.60
12	G3	G13	19.05	25.40	88.90	14.27	9.60
14	G4	G14	22.21	28.58	88.90	14.27	9.60
16	G5	G15	25.40	31.75	88.90	14.27	9.60
18	G6	G16	28.58	34.93	88.90	14.27	9.60
20	G7	G17	31.75	38.10	101.60	15.87	11.17
22	G8	G18	34.93	41.28	101.60	15.87	11.17
24	G9	G19	38.10	44.45	101.60	16.71	12.05

DIMENSIONS IN INCHES

SHELL SIZE	DASH NO.			H	L MAX.	N MIN.	Q MAX.
	WITHOUT CHAIN	WITH CHAIN	WITH CHAIN & WASHER				
8	G1	G11	G21	3.00	.562	.578	.719
10	G2	G12	G22	3.00	.562	.703	.812
12	G3	G13	G23	3.50	.562	.891	1.000
14	G4	G14	G24	3.50	.562	1.016	1.125
16	G5	G15	G25	3.50	.562	1.141	1.250
18	G6	G16	G26	3.50	.562	1.266	1.375
20	G7	G17	G27	4.00	.562	1.391	1.500
22	G8	G18	G28	4.00	.562	1.516	1.625
24	G9	G19	G29	4.00	.602	1.641	1.750

DIMENSIONS IN MILLIMETERS

SHELL SIZE	DASH NO.			H	L MAX.	N MIN.	Q MAX.
	WITHOUT CHAIN	WITH CHAIN	WITH CHAIN & WASHER				
8	G1	G11	G21	76.20	14.27	14.68	18.26
10	G2	G12	G22	76.20	14.27	17.86	20.64
12	G3	G13	G23	88.90	14.27	22.63	25.40
14	G4	G14	G24	88.90	14.27	25.80	28.58
16	G5	G15	G25	88.90	14.27	28.98	31.75
18	G6	G16	G26	88.90	14.27	32.15	34.93
20	G7	G17	G27	101.60	14.27	35.33	38.10
22	G8	G18	G28	101.60	14.27	38.50	41.28
24	G9	G19	G29	101.60	15.29	41.68	44.45

Contacts

Contact ratings		
Contact size	20	16
Rated current	7.5 A	13 A
Test current	7.5 A	13 A
Voltage drop	55 mV	50 mV

Ratings (sea level)

Class	I	II
Service	600 VAC eff.	1000 VAC eff.
	850 VDC	1450 VDC
Test	1500 VAC eff.	2300 VAC eff.

Material

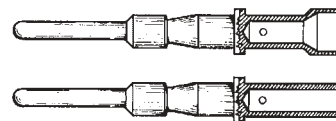
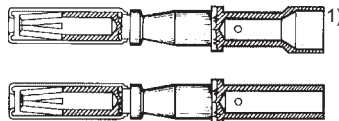
Contact	Copper alloy - Gold plate over nickel
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MS 312_ and PWF_ connectors are normally supplied with size 20 contacts with wire well support.
All crimp contacts can be crimped, inserted and removed with commercially available appropriate tooling.

Contacts for MS 312_ and PWF Series

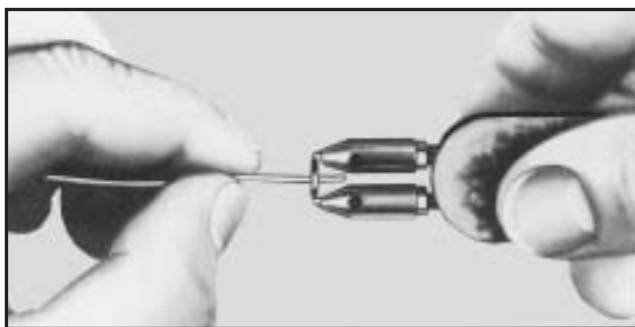
Socket 20 with wire well support	857-0668-XXX
Socket 20	857-0670-XXX
Socket 16	857-0672-XXX
Pin 20 with wire well support	806-0673-XXX
Pin 20	806-0687-XXX
Pin16	806-0688-XXX

Crimp contacts

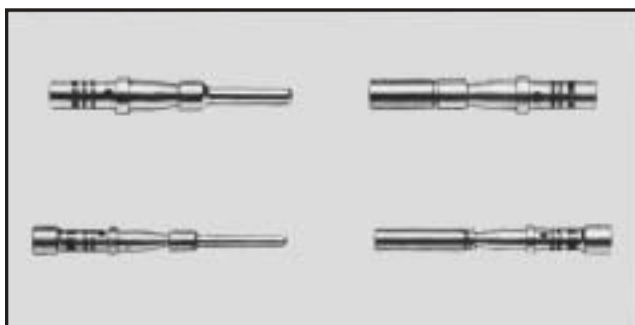


1) Socket and pin with wire well support (size 20 only)

Contact size		Array P/N	MS P/N	Handcrimping tool		Insertion Tool	Removal Tool
20 w/support cup	P	806-0673-XXX	M39029/31-240	M22520/2-01 +	M22520/1-01 +	MS24256A20	MS24256R20
20 w/support cup	S	857-0668-XXX	M39029/32-259	M22520/1-02	M22520/2-02	MS24256A20	MS24256R20
16	P	806-0688-XXX	M39029/31-228	↓	-----	MS24256A16	MS24256R16
16	S	857-0672-XXX	M39029/32-247		-----	MS24256A16	MS24256R16
20 w/o support cup	P	806-0687-XXX	M39029/31-223		M22520/2-01 +	MS24256A20	MS24256R20
20 w/o support cup	S	857-0670-XXX	M39029/32-242		M22520/2-02	MS24256A20	MS24256R20



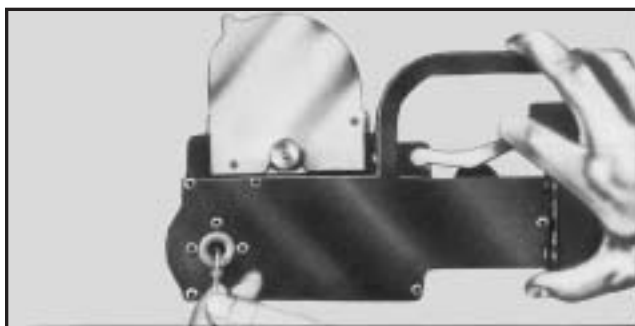
Cut wire to length and strip 1/4 inch of insulation from end for use with size 16 contacts. Strip 3/16 inch from end for use with size 20 contacts. Hot wire stripping is recommended. Avoid nicking individual strands if other methods are used.



Insert and bottom wire in contact. Insulation must extend into insulation wire well support. Check to make certain strands are visible in the inspection hole provided.

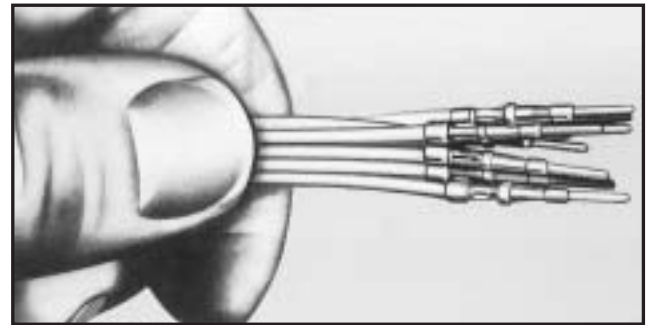


Insert wired contact into crimping tool, previously arranged; see table on page 13. Close tool handles to the full extent of their travel; release pressure on handles and remove the complete crimped contact/wire assembly. The tool will automatically position for the next crimping cycle.



A pneumatic crimping tool provided with magazine for large capacity production is available on specialized market.

The automatic or hand crimping tool assures a crimp joint which will meet MIL-T-22520. Both tools, if properly maintained by a periodic inspection, will provide a complete and uniform crimp over many thousands of cycles.



Insert the contact into the correct contact hole. Contact insertion tools are listed on the table on page 13.



Insert the contact into the correct contact hole of the integral grommet at the rear of the assembly. Push contact forward in a line parallel to the assembly until the contact bottoms. A slight pressure may be noticed just before contact reaches its fully seated position. Sealing plugs must be used in all unused circuits by placing the correct size plug behind each uncrimped contact. Use MS27488-20 sealing plug for size 20 and MS27488-16 for size 16.



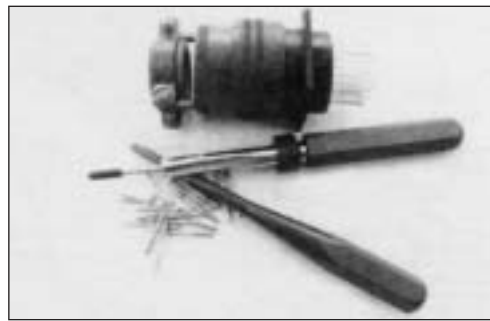
Remove the contact by inserting tools listed on the table on page 13. Fully bottom the tools tip by slightly rotating the tool. Push the thrust assist knob forward. The contact is now disengaged and may be removed at the rear of the assembly.



Other Quality Connectors



Reverse Bayonet 5015 Connectors



QPL'd MIL-C-26482 Series I
Solder and Crimp Connectors



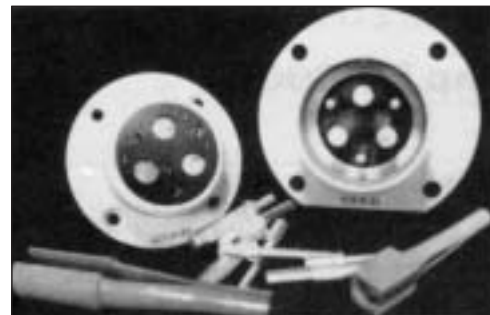
Quick Disconnect Connectors
Solder and Crimp Types



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Rugged Acme Thread Connectors
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P. O. Box 566
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The Netherlands
Ph: 31-(0) 172-449777
Fax: 31-(0) 172-499789
E-mail: avio-diepen@avio-diepen.com