



## Array PWF Series Crimp/Bayonet Coupling Connectors

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



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# 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

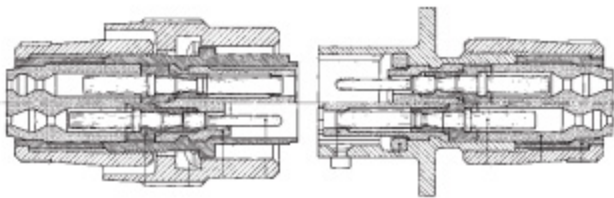
Contact Size	AWG Wire Size	Min.	Max.
20	24, 22 and 20	.066 (1.52)	.083 (2.11)
16	20, 18 and 16	.066 (1.68)	.109 (2.77)

### 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



## Standard Material and Finishes

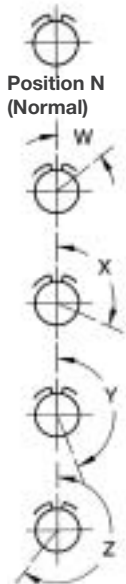
Shell (Mil-Std)	Aluminum alloy, conductive olive drab chromate over cadmium finish per QQ-P-416. (Consult Factory for Commercial options.)
Insulator	Synthetic Rubber
Grommet and Seal	Synthetic Rubber
Contacts	Cooper alloy, gold plate per MIL-G-45204 type II.
Temperature Range	-55°C to +125°C

## 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

## Engaging Face-Pin Inserts



## Polarization

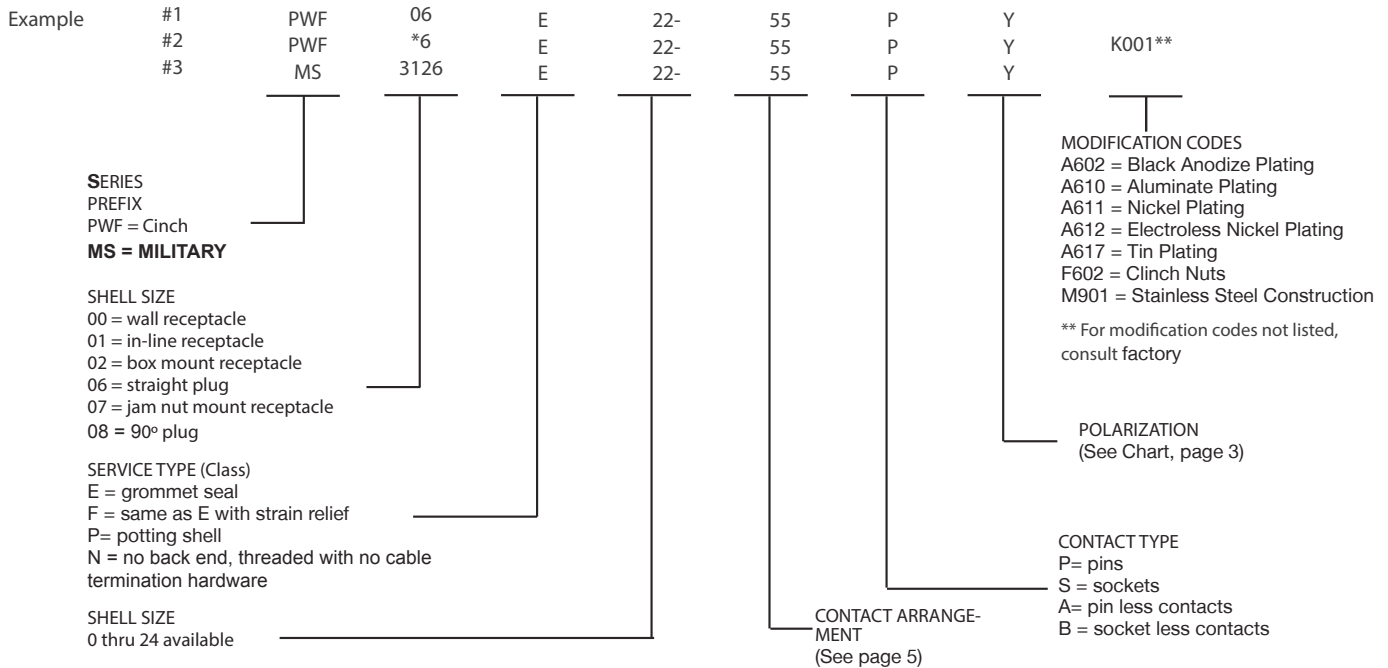
The diagrams indicate alternate insert positions. The five positions (W, X, Y, Z and Normal) differ in degree of rotation for various size and layouts. The exact angle of rotation for the combinations are listed in the table below.

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

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

# Nomenclature Guide



\*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					
	Cinch	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* 90o Cable Entry Plug	PT08SE* (No MS drawing.	KPSE08* Do not confuse with MS3128)		851-08RP*50	VPT08SE*
~~~~~	PWF**N* No rear accessories	PT03/4/5SE* (Commercial part numbering only)	KPSE03/4/5*			
MS3127E*	PWF05*	MF02S*	KP27E*	L*TE*7*A		
MS3128E*	PWF04*	MF00SE*	KP28E*	L*TE*8*A		

**NOTES:**

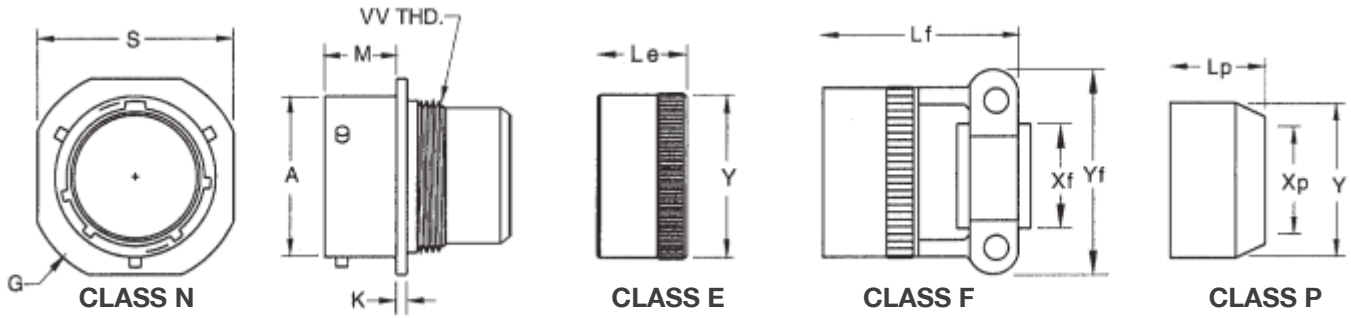
- Souriau is "commercial only". Not on QPL.
- For MS connectors "without contacts", include "less contacts" after the complete connector MS number. The MS number does not change.
- Connectors per MS have spare contacts and sealing plugs. Connectors per supplier's commercial part number do not have these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

# Contact Arrangement (Engaging Face of Pin Insert)

(For contact arrangements not shown, contact factory)

08	<p>3A 3 No. 20 Contacts</p>	<p>33 3 No. 20 Contacts</p>	
10	<p>6 6 No. 20 Contacts</p>	<p>7 7 No. 20 Contacts</p>	
12	<p>3 3 No. 16 Contacts</p>	<p>8 8 No. 20 Contacts</p>	<p>10 10 No. 20 Contacts</p>
14	<p>3 3 No. 16 Contacts</p>	<p>8 8 No. 20 Contacts</p>	<p>10 10 No. 20 Contacts</p>
16	<p>8 8 No. 16 Contacts</p>	<p>23 1 No. 16 Contact 22 No. 20 Contacts</p>	<p>26 26 No. 20 Contacts</p>
18	<p>11 11 No. 16 Contacts</p>	<p>32 32 No. 20 Contacts</p>	
20	<p>16 16 No. 16 Contacts</p>	<p>39 2 No. 16 Contacts 37 No. 20 Contacts</p>	<p>41 41 No. 20 Contacts</p>
22	<p>21 21 No. 16 Contacts</p>	<p>41 14 No. 16 Contacts 27 No. 20 Contacts</p>	<p>55 55 No. 20 Contacts</p>
24	<p>61 61 No. 20 Contacts</p>	<p>** Commercial arrangement.                      ° MIL-C-26482 Series 1 Contact arrangements, per MIL-STD-1669</p>	

# 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	YMAX.	Yf MAX.	M+.031 -.000	A±.003	SMAX.	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	YMAX.	Yf MAX.	M+ .787 -.000	A± .076	SMAX.	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

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