62IN SERIES MINIATURE CIRCULAR BAYONET-COUPLED CONNECTORS



CATLOG NO.
ACR 21 REV 7/2001

Introduction

Amphetronix 62IN series connectors are general purpose, environment resistant, miniature circular connectors with three-point bayonet-coupling and five-key polarisation. Designed to meet the requirements of **MIL-C-26482, Series I solder type** and British standard **BS 9522 F00 17**, these connectors are widely used in applications calling for quick disconnect connectors.

62IN connectors are intermateable and interchangeable with all MIL-C-26482 connectors, whether solder or crimp type. These connectors are used worldwide in military and industrial applications, and are available in a variety of sizes, styles and configurations.

Amphetronix 62IN series connectors are also approved to Indian Defence Standard Joint Services Specification **JSS50813**, certified by the Electronic Components Standardisation Organisation (LCSO), Bangalore, India.

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General description

Amphetronix 62IN series miniature circular bayonet-coupled solder connectors meet the most critical application needs. Design versatility and high reliability performance make this series ideal for environmental sealing.

Shell

Shell hardware is manufactured from aluminium alloy and cadmium plated with an olive drab chromate finish. This finish has excellent conductivity; it is non-reflecting and corrosion resistant. Black anodised finish and cadmium-free zinc-cobalt plating are also available. For details, contact factory.
Shell styles consist of wall and box mounting receptacles, jam nut receptacles, cable mounting receptacles and straight plugs. Connectors are available in 9 shell sizes: 8, 10, 12, 14, 16, 18, 20, 22 and 24.
Positive shell-to-shell keying is provided with keys and keyways in a choice of either normal (N) or any of the preferred alternate positions: B, C, E and F. This prevents mismating between shells of different orientations and overcomes the difficulties associated with rotated inserts and standard key / keyway orientation. In the latter system, damage to inserts or contacts can result if excessive force is used to engage non-mating pairs.
Spring tension provided by a wave washer in the coupling ring ensures maintenance of inter facial seal between mating halves.

Insert and grommet

The insert and grommet are moulded from resilient neoprene, offering high dielectric strength and resistance to oils, gasoline and low temperature. This provides electrical isolation of the contacts in the insert and excellent moisture sealing.

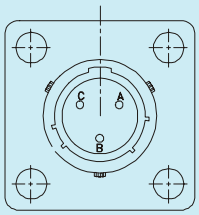
Contacts

Gold over nickel plated pin and socket contacts are machined from brass and designed for solder connections. Industrial version crimp contacts are also available on request.

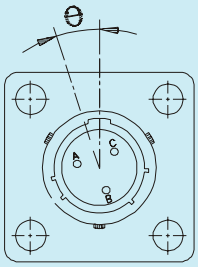
Specifications

Number of contacts		2 thru 61 in discrete steps		
Operating temperature		-55°C to +125°C		
Current rating				
	Contact size	Rated current	Test current	Potential drop
	20	7.5A	7.5A	≤ 55mV
	16	13A	13A	≤ 50mV
Voltage rating (max. operating voltage at sea level)				
	Service rating	AC (rms)		
	I	600V		
	II	1000V		
Insulation resistance		≥ 5000 Mohm		
Voltage proof				
	Service rating	Test voltage (rms)		
	I	1500V		
	II	2300V		
Wire range accomodations				
	Contact size	AWG wire size		
	20	24, 22 and 20		
	16	20, 18 and 16		

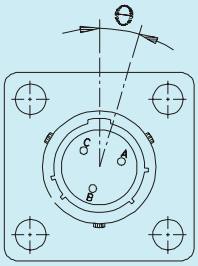
Insert orientations



Normal position of insert with pin contacts



Alternate position of insert with socket contacts (θ counterclockwise)

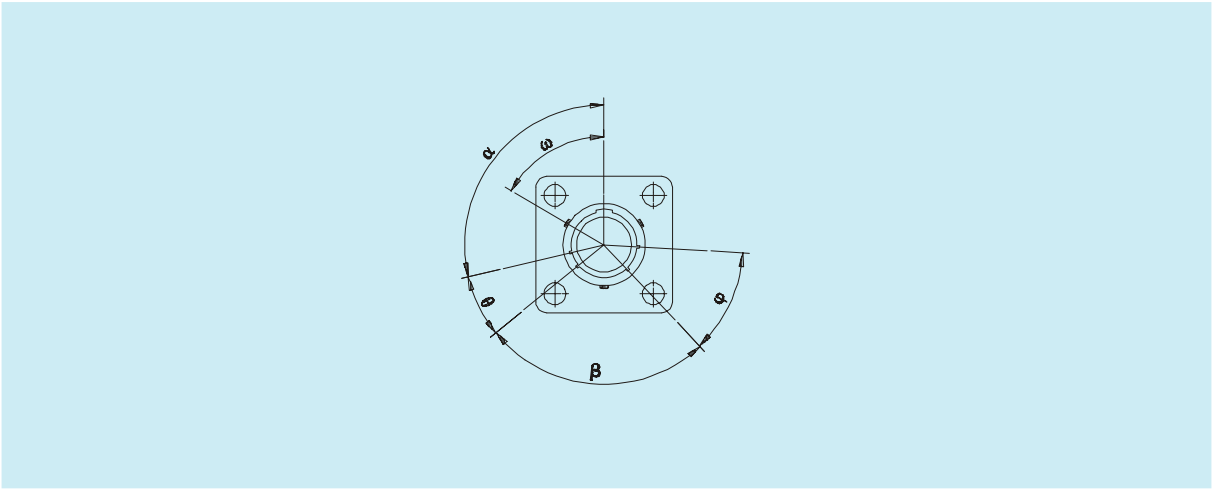


Alternate position of insert with pin contacts (θ clockwise)

Each diagram shows mating face of insert

Insert arrangement	Orientation Angles in degrees			
	W	X	Y	Z
8-2	58	122	-	-
8-3	60	210	-	-
8-4	45	-	-	-
8-33	90	-	-	-
10-2	-	-	-	-
10-6	90	-	-	-
10-7	-	-	-	-
10-8	-	-	-	-
12-3	-	-	180	-
12-8	90	112	203	292
12-10	60	155	270	295
12-12	-	-	-	-
12-14	-	-	-	-
14-5	40	92	184	273
14-12	43	90	-	-
14-15	17	110	155	234
14-19	30	165	315	-
16-8	54	152	180	331
16-23	158	270	-	-
16-26	60	-	275	338
18-11	62	119	241	340
18-32	85	138	222	265
20-16	238	318	333	347
20-27	72	144	216	288
20-41	45	126	225	-
22-21	16	135	175	349
22-55	30	142	226	314
24-31	90	225	255	-
24-61	90	180	270	324

Key / Keyway orientations



Shell size	Angles in degrees																			
	α					θ					β					φ				
	N	B	C	E	F	N	B	C	E	F	N	B	C	E	F	N	B	C	E	F
8	105	-	-	118	82	35	-	-	30	50	75	-	-	100	75	50	-	-	30	45
10	105	85	125	115	85	35	35	35	30	50	75	75	75	100	75	50	50	50	30	45
12	105	89	121	115	85	35	35	35	30	50	75	75	75	100	75	50	50	50	30	45
14	105	91	119	75	120	35	35	35	30	50	75	75	75	100	75	50	50	50	30	35
16	105	93	117	75	120	35	35	35	30	50	75	75	75	100	75	50	50	50	30	35
18	105	95	115	75	120	35	35	35	30	50	75	75	75	100	75	50	50	50	30	35
20	105	95	115	75	120	35	35	35	30	50	75	75	75	100	75	50	50	50	30	35
22	105	97	113	75	120	35	35	35	30	50	75	75	75	75	75	50	50	50	30	35
24	105	97	113	75	120	35	35	35	30	50	75	75	75	100	75	50	50	50	30	35

Shell size	Angle indegrees ω				
	N	B	C	E	F
8	60	-	-	73	47
10	60	40	80	70	50
12	60	44	76	70	50
14	60	46	74	30	75
16	60	48	72	30	75
18	60	50	70	30	75
20	60	50	70	30	75
22	60	52	68	30	75
24	60	54	68	30	75

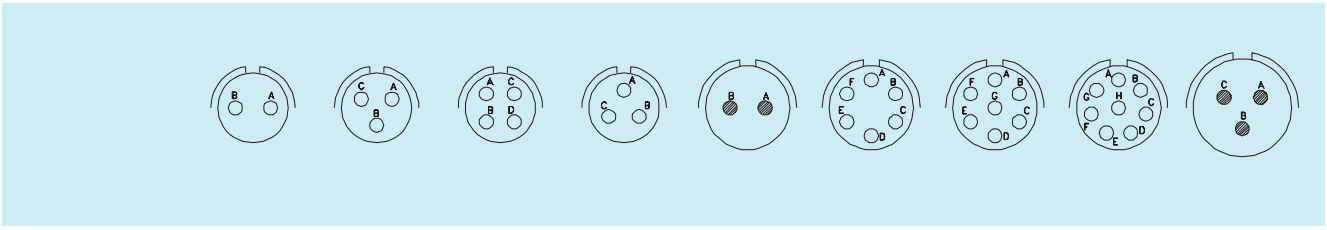
Angles shown are with reference to the major key or keyway. In receptacles, the major keyway always remains fixed in relation to the mounting flange. For B, C, E and F orientations, the three bayonet locations and associated minor keyways are rotated completely as shown in the tables. The accompanying diagram shows a receptacle shell with keyways. Corresponding key orientations for a mating plug shell are therefore always clockwise.

Insert arrangements

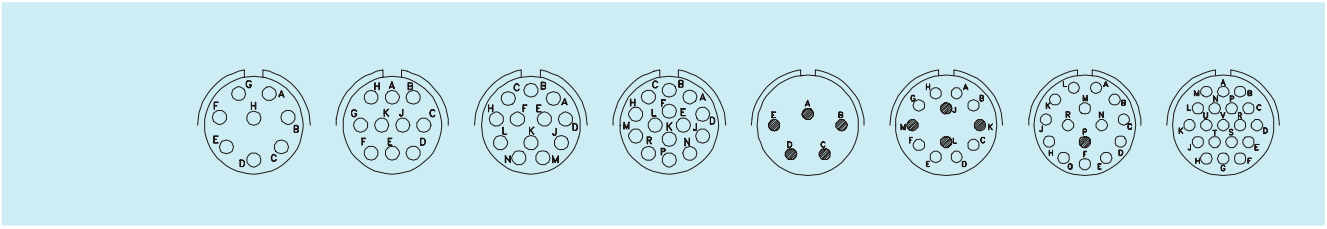
Front face of pin insert or rear of socket insert illustrated

Contact Legend

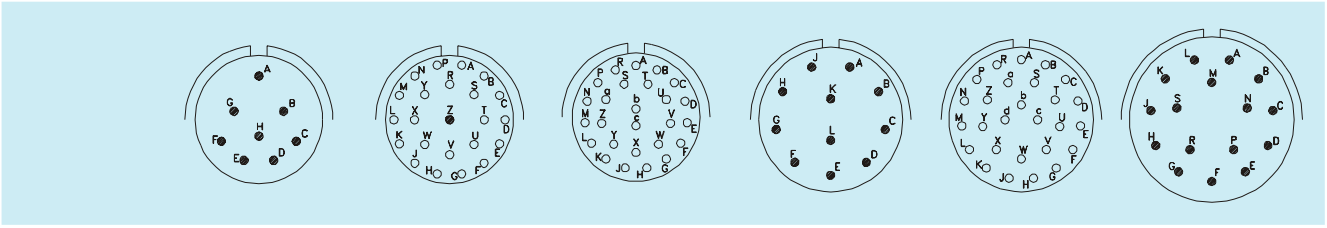
Symbol	● ○
Contact size	16
	20



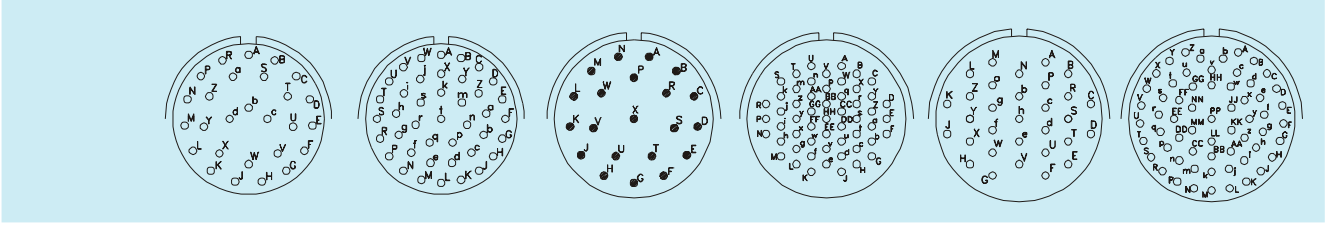
Insert arrangement	8-2	8-3	8-4	8-33	10-2	10-6	10-7	10-8	12-3
Service rating	I	I	I	I	II	I	I	I	II
Number of contacts	2	3	4	3	2	6	7	8	3
Contact size	20	20	20	20	16	20	20	20	16



Insert arrangement	12-8	12-10	12-12	12-14	14-5	14-12	14-15	14-19
Service rating	I	I	I	I	II	I	I	I
Number of contacts	8	10	12	14	5	4 8	1 14	19
Contact size	20	20	20	20	16	16 20	16 20	20



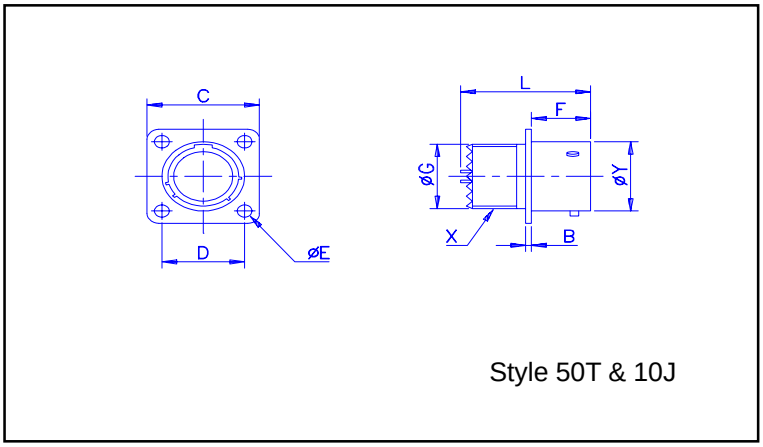
Insert arrangement	16-8	16-23	16-26	18-11	18-32	20-16
Service rating	II	I	I	II	I	II
Number of contacts	8	1 22	26	11	32	16
Contact size	16	16 20	20	16	20	16



Insert arrangement	20-27	20-41	22-21	22-55	24-31	24-61
Service rating	I	I	II	I	I	I
Number of contacts	27	41	21	55	31	61
Contact size	20	20	16	20	16	20

Connector styles

Wall mounting receptacles



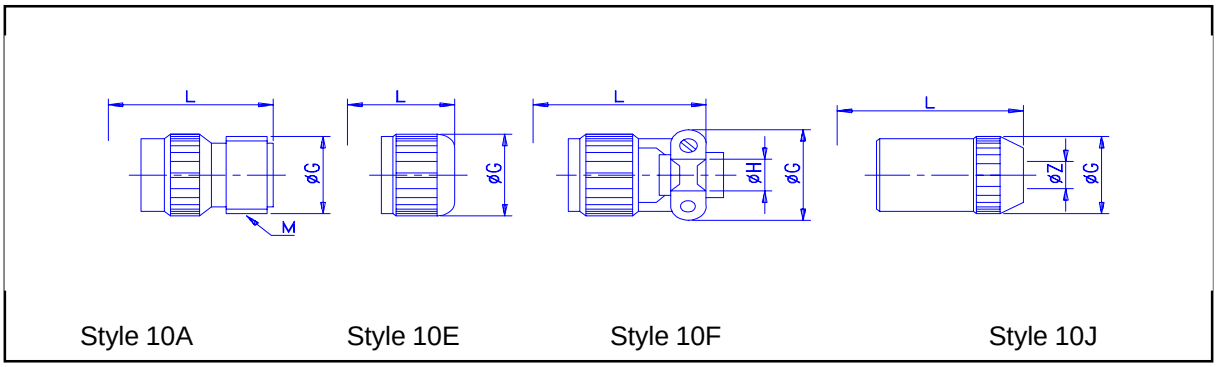
Style 50T & 10J

Without termination assemblies

All dimensions in mm

Shell size	B	C	D	E Dia	F	G Dia	L	Y Dia	X threads in inches
8	1.58	20.75	15.09	3.05	11.30	11.02	24.84	12.02	7/16-28 UNEF
10	1.58	23.93	18.26	3.05	11.30	14.17	24.84	14.99	9/16-24 NEF
12	1.58	26.32	20.63	3.05	11.30	17.35	24.84	19.05	11/16-24 NEF
14	1.58	28.70	23.10	3.05	11.30	20.52	24.84	22.23	13/16-20 UNEF
16	1.58	31.07	24.61	3.05	11.30	23.70	24.84	25.40	15/16-20 UNEF
18	1.58	33.45	26.58	3.05	11.30	26.85	24.84	28.58	1 1/16-18 NEF
20	2.03	36.63	29.36	3.05	14.10	30.02	26.62	31.75	1 3/16-18 NEF
22	2.03	39.80	31.75	3.05	14.10	33.15	26.62	34.93	1 5/16-18 NEF
24	2.03	42.98	34.93	3.74	14.99	36.37	26.62	38.10	1 7/16-18 NEF

Note: Serrations / antirotation feature is not provided on shells for 10A, 10E and 10F styles.



Style 10A Style 10E Style 10F Style 10J

With termination assemblies

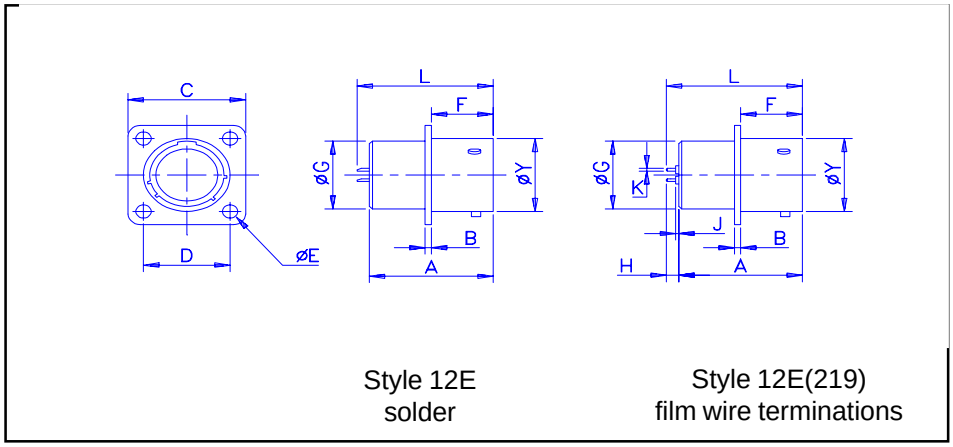
All dimensions in mm

Shell size	Style 10A			Style 10E		Style 10F			Style 10J			
	G Dia	L	M thread in inches	G Dia	L	G Dia	H Dia	L	G Dia	L	For cable size Z Dia	
											min	max
8	14.25	41.25	1/2-28 UNEF	14.25	32.54	21.03	3.96	44.76	14.25	46.89	4.28	5.84
10	17.43	41.25	5/8-24 NEF	17.43	32.54	22.63	4.78	44.76	17.43	46.89	5.21	7.93
12	20.60	41.25	3/4-20 UNEF	20.60	32.54	25.81	7.93	44.76	20.80	49.45	8.59	11.23
14	23.78	41.25	7/8-20 UNEF	23.78	32.54	28.98	9.58	44.10	23.78	54.54	10.57	13.69
16	26.98	41.25	1-20 UNEF	26.98	32.54	30.56	12.70	47.65	26.98	59.61	13.97	15.65
18	30.12	41.25	1 3/16-18 NEF	30.12	32.54	36.22	15.87	47.65	30.12	64.70	15.24	17.07
20	33.30	42.85	1 3/16-18 NEF	33.30	35.13	36.22	15.87	53.80	33.30	71.91	16.13	18.98
22	36.47	42.85	1 7/16-18 NEF	36.47	35.13	39.80	19.05	53.80	36.47	76.99	17.02	21.49
24	39.65	43.94	1 7/16-18 NEF	39.65	35.13	44.07	30.32	57.15	39.65	78.08	18.80	22.71

Note: Serrations / antirotation feature is provided on shells and accessories for 10J style only.

Connector styles

Box mounting receptacles



Style 12E
solder

Style 12E(219)
film wire terminations

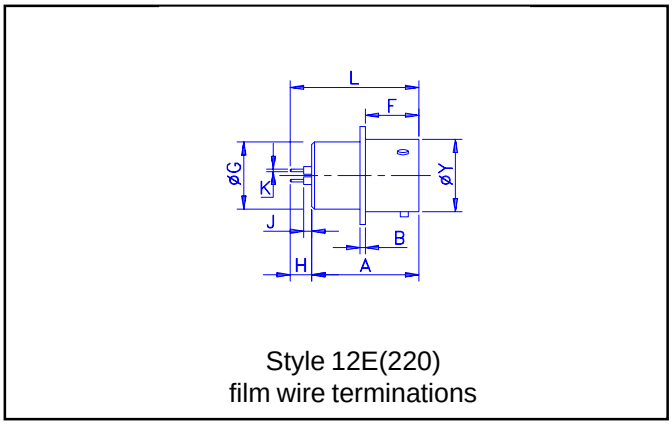
All dimensions in mm

Shell size	B	C	D	E Dia	F	G Dia	Y Dia	Style 12E		Style 12E(219)						
								A	L	A	H		J	K		L
											min	max		min	max	
8	1.58	20.75	15.09	3.05	11.30	11.02	12.02	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
10	1.58	23.93	18.26	3.05	11.30	14.17	14.99	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
12	1.58	26.32	20.63	3.05	11.30	17.35	19.05	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
14	1.58	28.70	23.10	3.05	11.30	20.52	22.23	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
16	1.58	31.07	24.61	3.05	11.30	23.70	25.40	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
18	1.58	33.45	26.58	3.05	11.30	26.85	28.58	20.32	24.84	20.32	4.22	5.03	2.26	0.70	0.76	24.95
20	2.03	36.63	29.36	3.05	14.10	30.02	31.75	22.23	26.62	22.23	3.89	4.70	1.93	0.70	0.76	26.85
22	2.03	39.80	31.75	3.05	14.10	30.02	34.93	22.23	26.62	22.23	3.89	4.70	1.93	0.70	0.76	26.85
24	2.03	42.98	34.93	3.74	14.99	36.37	38.10	22.23	26.62	22.23	3.89	4.70	1.93	0.70	0.76	26.85

Mounting data

Panel cutouts

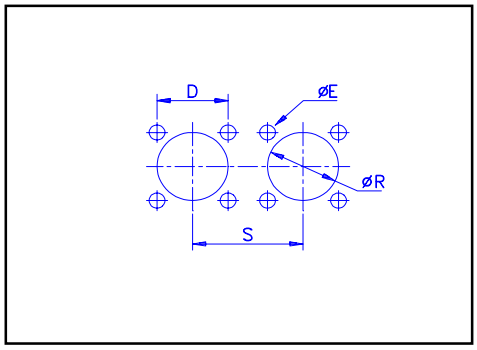
Wall mounting receptacles



Style 12E(220)
film wire terminations

All dimensions in mm

Shell size	A	H		J	K		L
		min	max		min	max	
8	20.32	7.95	8.00	4.60	0.70	0.76	28.32
10	20.32	7.95	8.00	4.60	0.70	0.76	28.32
12	20.32	7.95	8.00	4.60	0.70	0.76	28.32
14	20.32	7.95	8.00	4.60	0.70	0.76	28.32
16	20.32	7.95	8.00	4.60	0.70	0.76	28.32
18	20.32	7.95	8.00	4.60	0.70	0.76	28.32
20	22.23	7.95	8.00	4.60	0.70	0.76	30.23
22	22.23	7.95	8.00	4.60	0.70	0.76	30.23
24	22.23	7.95	8.00	4.60	0.70	0.76	30.23



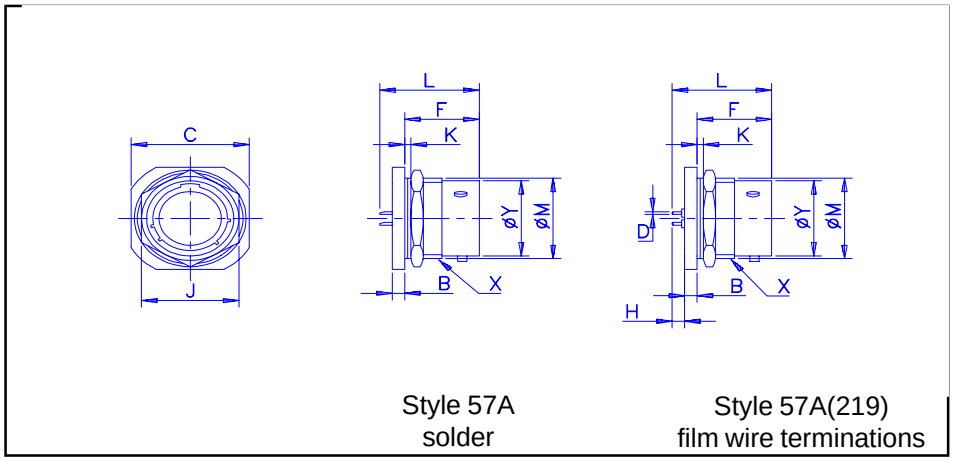
All dimensions in mm

Shell size	D	E Dia	R Dia	S
8	15.09	3.05	14.42	31.73
10	18.29	3.05	17.53	34.52
12	20.75	3.05	21.84	38.89
14	23.11	3.05	25.15	42.06
16	24.64	3.05	28.19	45.24
18	26.92	3.05	31.49	48.03
20	29.46	3.05	35.54	51.59
22	31.75	3.05	37.85	52.76
24	35.05	3.05	41.15	57.84

Note: Style 220 is also available for 57A type receptacles with similar termination dimensions as 12E(220) style shown above.

Connector styles

Jam nut receptacles



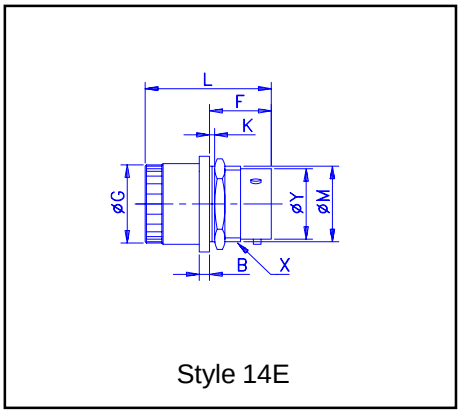
Style 57A
solder

Style 57A(219)
film wire terminations

Without termination assemblies

All dimensions in mm

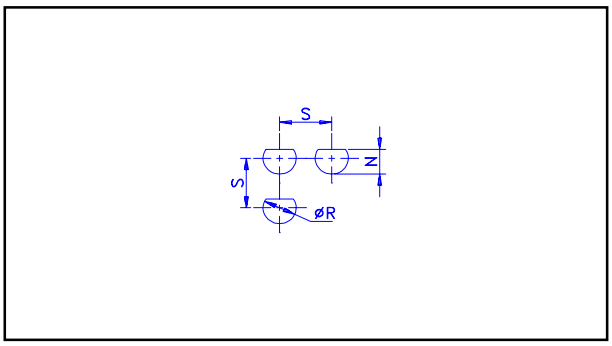
Shell size	B	C	D		F	H		J	K Panel thickness		Style 57A L	Style 57A (219) L	M Dia	Y Dia	X thread in inches
			min	max		min	max		min	max					
8	2.97	23.93	0.70	0.76	17.93	3.38	4.40	19.05	1.58	3.18	24.84	24.84	13.39	12.03	9/16-24 NEF
10	2.97	27.10	0.70	0.76	17.93	3.38	4.40	22.23	1.58	3.18	24.84	24.84	16.56	14.99	11/16-24 NEF
12	2.97	31.88	0.70	0.76	17.93	3.38	4.40	26.98	1.58	3.18	24.84	24.84	20.70	19.05	7/8-20 UNEF
14	2.97	35.05	0.70	0.76	17.93	3.38	4.40	30.15	1.58	3.18	24.84	24.84	23.85	22.23	1-20 UNEF
16	2.97	38.23	0.70	0.76	17.93	3.38	4.40	33.32	1.58	3.18	24.84	24.84	27.00	25.40	1 1/8-18 NEF
18	2.97	41.40	0.70	0.76	17.932	3.38	4.40	36.50	1.58	3.18	24.84	24.84	30.18	28.58	1 1/4-18 NEF
20	3.76	46.15	0.70	0.76	22.71	3.38	4.40	38.68	1.58	6.35	26.62	30.35	33.35	31.75	1 3/8-18 NEF
22	3.76	49.33	0.70	0.76	22.71	3.38	4.40	42.85	1.58	6.35	26.62	30.35	36.53	34.93	1 1/2-18 NEF
24	3.76	52.50	0.70	0.76	23.55	3.38	4.40	46.05	1.58	6.35	26.62	30.35	39.70	38.10	1 5/8-18 NEF



Style 14E

Mounting data

Panel cutouts



With termination assemblies

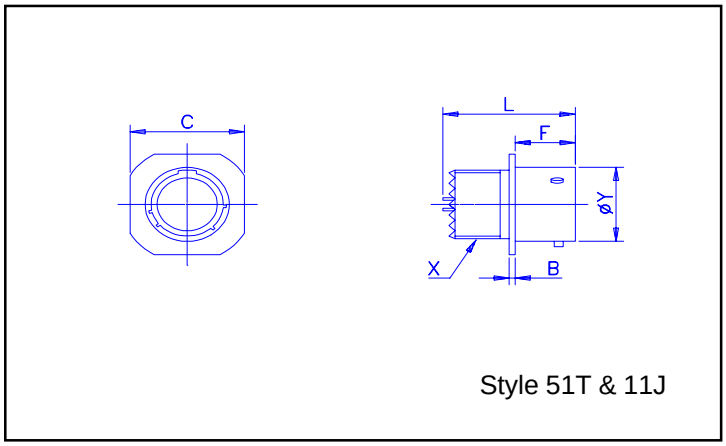
All dimensions in mm

Shell size	G Dia	L
8	18.11	34.14
10	21.29	34.14
12	24.46	34.14
14	27.63	34.14
16	30.81	34.14
18	33.98	34.14
20	37.16	40.03
22	40.33	40.03
24	43.51	40.87

Shell size	N	R	S
8	13.72	14.53	31.75
10	16.89	17.70	34.52
12	21.03	22.48	38.89
14	24.18	25.65	42.06
16	27.33	28.83	45.24
18	30.50	32.00	48.03
20	33.68	35.18	51.59
22	36.86	38.35	54.76
24	40.03	41.45	57.84

Connector styles

Cable mounting receptacles



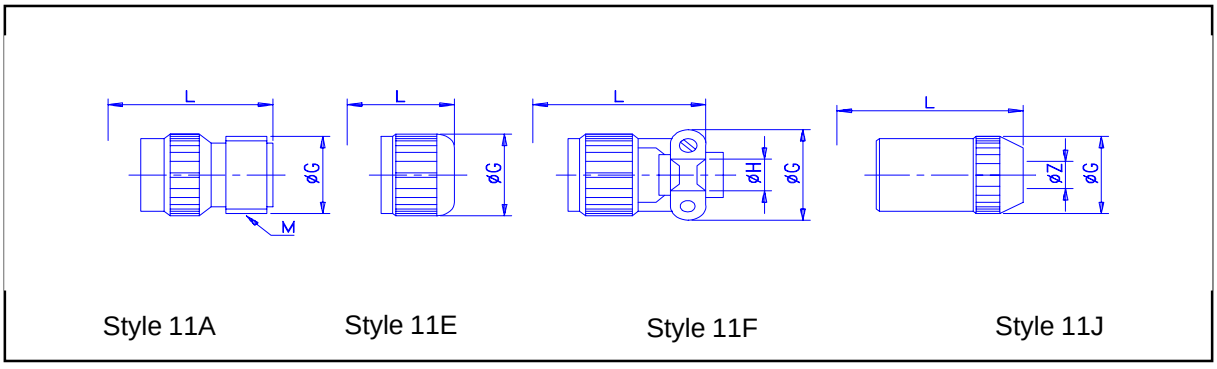
Style 51T & 11J

Without termination assemblies

All dimensions in mm

Shell size	B	C	F	L	Y Dia	X thread in inches
8	2.39	20.75	10.54	24.84	12.03	7/16-28 UNEF
10	2.39	23.93	10.54	24.84	14.99	9/16-24 NEF
12	2.39	26.32	10.54	24.84	19.05	11/16-24 NEF
14	2.39	28.70	10.54	24.84	22.23	13/16-20 UNEF
16	2.39	31.07	10.54	24.84	25.40	15/16-20 UNEF
18	2.39	33.45	10.54	24.84	28.58	1 1/16-18 NEF
20	2.59	36.63	13.59	26.62	31.75	1 3/16-18 NEF
22	2.59	39.80	13.59	26.62	34.93	1 5/16-18 NEF
24	2.59	42.98	14.53	26.62	38.10	1 7/16-18 NEF

Note: Serrations / antirotation feature is not provided on shells for 11A, 11E and 11F styles.



Style 11A Style 11E Style 11F Style 11J

With termination assemblies

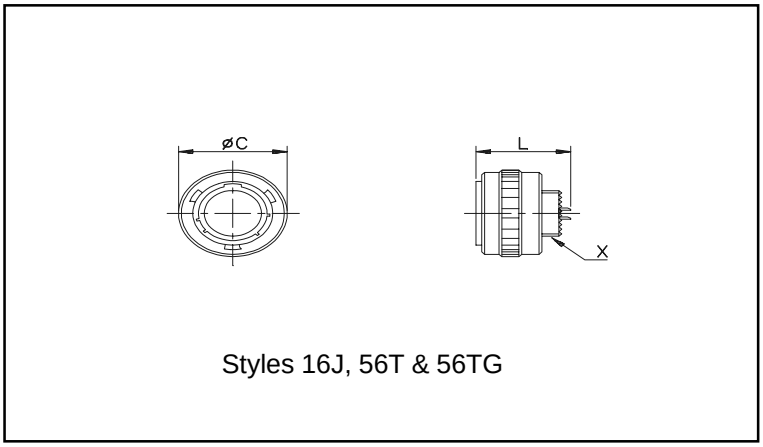
All dimensions in mm

Shell size	Style 11A			Style 11E		Style 11F			Style 11J			
	G Dia	L	M thread in inches	G Dia	L	G Dia	H Dia	L	G Dia	L	For cable size Z Dia	
											min	max
8	14.25	41.25	1/2-28 UNEF	14.25	32.54	21.03	3.96	44.76	14.25	46.89	4.28	5.84
10	17.43	41.25	5/8-24 NEF	17.43	32.54	22.63	4.78	44.76	17.43	46.89	5.21	7.93
12	20.60	41.25	3/4-20 UNEF	20.60	32.54	25.81	7.93	44.76	20.60	49.45	8.59	11.23
14	23.78	41.25	7/8-20 UNEF	23.78	32.54	28.97	9.53	44.10	23.78	54.54	10.57	13.69
16	26.95	41.25	1-20 UNEF	26.95	32.54	30.56	12.70	47.65	26.95	59.61	13.97	15.65
18	30.13	41.25	1 3/16-18 NEF	30.13	32.54	36.22	15.88	47.65	30.13	64.70	15.24	17.07
20	33.30	42.85	1 3/16-18 NEF	33.30	35.13	36.22	15.88	53.80	33.30	71.91	16.13	18.98
22	36.75	42.85	1 7/16-18 NEF	36.75	35.13	39.80	19.05	53.80	36.75	76.99	17.02	21.49
24	39.65	43.95	1 7/16-18 NEF	39.65	35.13	44.07	20.32	57.15	39.65	78.03	18.80	22.71

Note: Serrations / antirotation feature is provided on shells and accessories for 11J style only.

Connector styles

Straight plugs



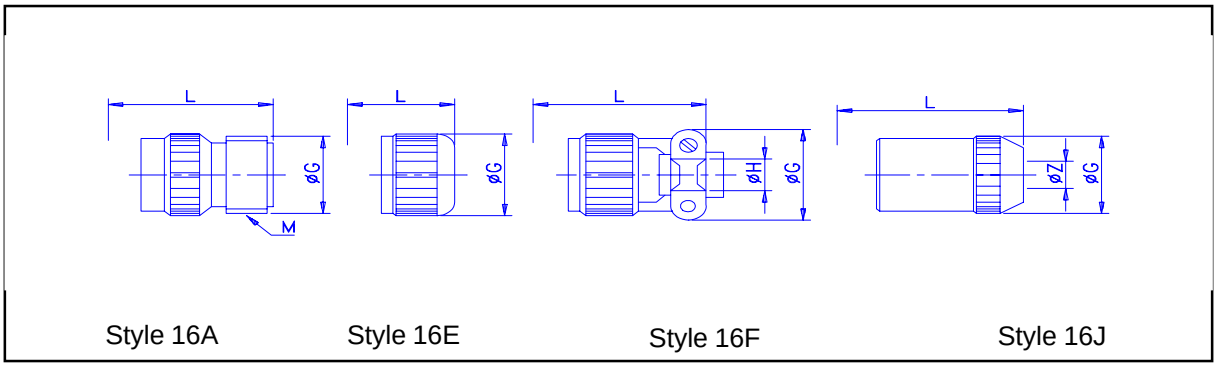
Styles 16J, 56T & 56TG

Without termination assemblies

All dimensions in mm

Shell size	C Dia	L	X thread in inches
8	19.05	24.79	7/16-28 UNEF
10	21.82	24.79	9/16-24 NEF
12	26.19	24.79	11/16-24 NEF
14	29.36	24.79	13/16-20 UNEF
16	32.54	24.79	15/16-20 UNEF
18	35.33	24.79	1 1/16-18 NEF
20	38.89	26.79	1 3/16-18 NEF
22	42.06	26.79	1 5/16-18 NEF
24	45.14	26.79	1 7/16-18 NEF

Note: Serrations / antirotation feature is not provided on shells for 16A, 16E and 16F styles.



Style 16A Style 16E Style 16F Style 16J

With termination assemblies

All dimensions in mm

Shell size	Style 16A			Style 16E		Style 16F			Style 16J			
	G Dia	L	M thread in inches	G Dia	L	G Dia	H Dia	L	G Dia	L	For cable size Z Dia	
											min	max
8	14.25	41.00	1/2-28 UNEF	14.25	32.54	21.03	3.96	44.50	14.25	46.64	4.28	5.84
10	17.43	41.00	5/8-24 NEF	17.43	32.54	22.63	4.78	44.50	17.43	46.64	5.21	7.93
12	20.60	41.00	3/4-20 UNEF	20.60	32.54	25.81	7.93	44.50	20.60	49.20	8.59	11.23
14	23.78	41.00	7/8-20 UNEF	23.78	32.54	28.97	9.53	43.84	23.78	54.28	10.57	13.69
16	26.95	41.00	1-20 UNEF	26.95	32.54	30.56	12.70	47.40	26.95	59.36	13.97	15.65
18	30.13	41.00	1 3/16-18 NEF	30.13	32.54	36.22	15.88	47.40	30.13	64.45	15.24	17.07
20	33.30	41.00	1 3/16-18 NEF	33.30	32.54	36.22	15.88	51.81	33.30	70.05	16.13	18.98
22	36.75	41.00	1 7/16-18 NEF	36.75	32.54	39.80	19.05	51.81	36.75	75.13	17.02	21.49
24	39.61	42.11	1 7/16-18 NEF	39.61	32.54	44.07	20.32	55.32	39.61	76.25	18.80	22.71

Notes: 1. Plugs are also available with heavy duty ribbed coupling rings. To order, add deviation **(044)** at the end of plug part number.

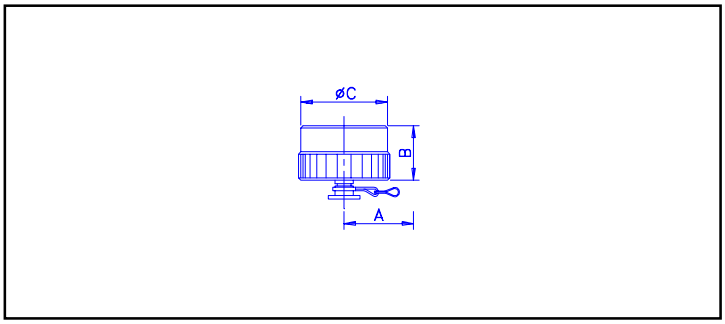
2. Serrations / antirotation feature is provided on shells for 16J, 56T and 56TG styles only.

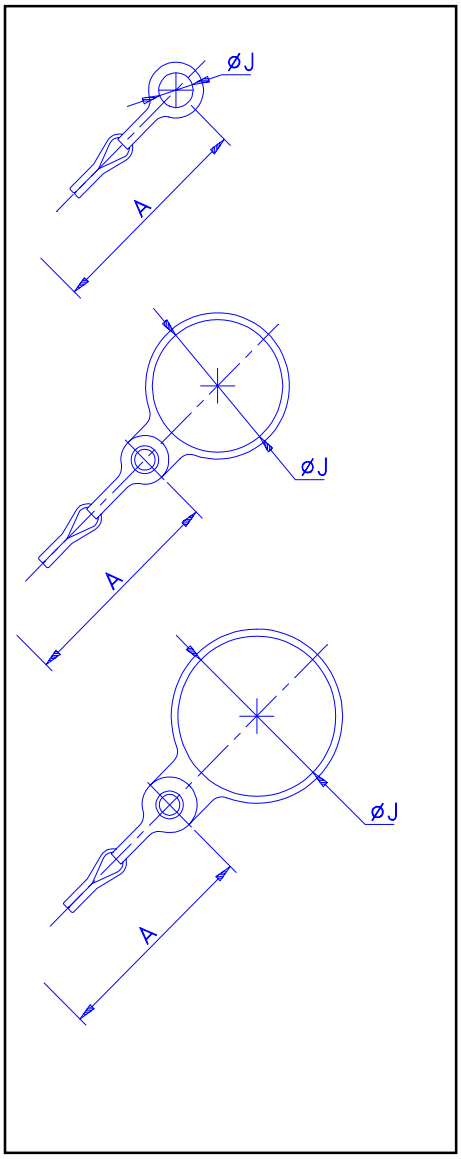
Metallic dust covers

Standard is olive drab chromate finish over cadmium plating with straight knurling. To order add suffix **-XX** to required style, where XX specifies shell size. It is strongly recommended that these are fitted to provide protection when connectors are not in use. For alternate finishes or dust covers with heavy duty ribs, contact factory for further details and part number.

For receptacles

Dust cover style		To fit receptacle style
with chain	with nylon cord	
62IN-736	62IN-813	Jam nut
62IN-737	62IN-814	Cable mounting
62IN-738	62IN-812	Wall and box mounting





For plugs

Dust cover style	
with chain	with nylon cord
62IN-742	62IN-810

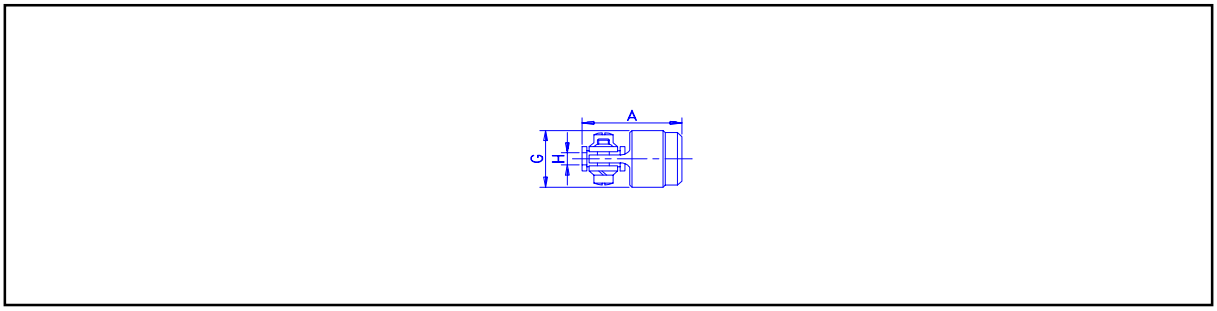
All dimensions in mm

Shell size	A chain / cord length	B		C Dia	J Dia		
		for receptacles	for plugs		736 813	737 814	738 812 742 810
8	76.20	15.21	15.03	18.64	14.68	11.63	4.40
10	76.20	15.21	15.03	21.82	17.86	14.81	4.40
12	88.90	15.21	15.03	25.40	22.63	17.98	4.40
14	88.90	15.21	15.03	28.57	25.81	22.76	4.40
16	88.90	15.21	15.03	31.75	29.39	25.93	4.40
18	88.90	15.21	15.03	34.92	32.16	29.11	4.40
20	101.60	15.21	15.03	38.10	35.33	32.28	4.40
22	101.60	15.21	15.03	41.27	38.51	35.46	4.40
24	101.60	15.21	15.03	44.45	41.68	38.63	4.40

Accessories

Strain relief clamp with grommet — 62IN-585-XX-XXS or XXP

(Replace XX-XX with the required insert arrangement)

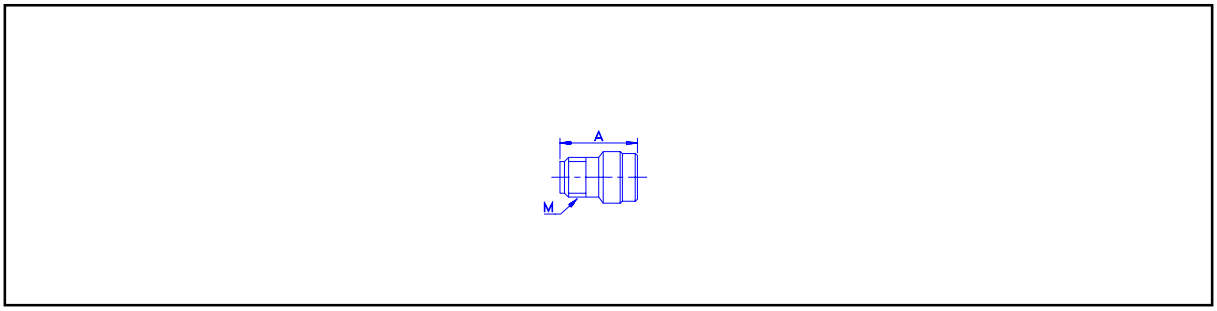


All dimensions in mm

Shell size	A max	G max	H max
8	25.17	21.03	4.09
10	25.17	22.63	4.90
12	25.17	25.81	8.05
14	24.51	28.98	9.65
16	28.07	30.56	12.83
18	28.07	36.22	16.00
20	32.64	36.22	16.00
22	32.64	39.80	19.18
24	34.88	44.07	20.45

Shell to accept conduit — 62IN-776-XX

(Replace XX with the required shell size)



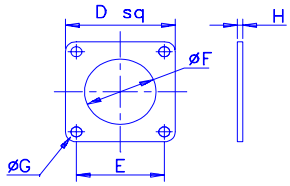
All dimensions in mm

Shell size	A max	M Thread in inches
8	23.80	1/2-28 UNEF
10	23.80	5/8-24 NEF
12	23.80	3/4-20 UNEF
14	23.80	7/8-20 UNEF
16	23.80	1-20 UNEF
18	23.80	1 3/16-18 NEF
20	23.80	1 3/16-18 NEF
22	23.80	1 7/16-18 NEF
24	23.80	1 7/16-18 NEF

Accessories

Flange mounting gasket 62IN-760-XX

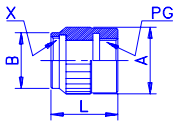
(Replace XX with the required shell size)



All dimensions in mm

Shell size	D	E	F Dia	G Dia	H max
8	20.62	15.08	12.90	3.30	1.06
10	23.82	18.26	16.07	3.30	1.06
12	26.18	20.65	19.25	3.30	1.06
14	28.57	23.01	22.42	3.30	1.06
16	30.96	24.61	25.60	3.30	1.06
18	33.32	27.00	28.77	3.30	1.06
20	36.52	29.36	31.95	3.30	1.06
22	39.70	31.75	35.13	3.30	1.06
24	42.87	34.92	38.30	3.96	1.06

PG Adaptors



All dimensions in mm

Part number	For shell size	X Thread in inches	A	B	L	PG Thread
62IN08-PG7	8	7/16-28 UNEF	16.50	14.50	20.00	PG7
62IN10-PG9	10	9/16-24 NEF	22.00	17.70	20.00	PG9
62IN12-PG9	12	11/16-24 NEF	22.00	21.00	20.00	PG9
62IN14-PG13.5	14	13/16-20 UNEF	28.00	23.50	25.00	PG13.5
62IN16-PG9	16	15/16-20 UNEF	29.00	27.80	30.00	PG9
62IN20-PG21	20	1 3/16-18 NEF	35.00	34.00	40.00	PG21

Specials

Industrial version crimp contacts

62IN series connectors are also available with rear release crimp contacts for industrial applications. These contacts can be crimped to wires outside the connector and then inserted into place with the help of designated tools. Connector maintenance is simplified because damaged contacts can be removed by using the designated removal tool and replaced with a new contact. Spare contacts are also available.

Crimping tool details

Part number	Contact type	Crimping tool Military number	Locator	Wire size accomodation
62IN108166	20 size pin	M22520/1-01	M22520/1-02	24, 22 and 20 AWG
62IN108167	20 size socket			
62IN108168	16 size pin			20, 18 and 16 AWG
62IN108169	16 size socket			

Insertion and removal tool details

Contact type	Insertion tool	Removal tool
20 size pin	T-809733	T-809729
20 size socket	T-809733	T-809730
16 size pin	T-809734	T-809731
16 size socket	T-809734	T-809732

Standard deviations

Deviation number	Description
(004)	Gold flash on contacts
(005)	Crimp contact
(023)	Nickel plated hardware
(044)	Rough grip heavy duty coupling ring (for plugs only)
(218)	Coupling ring with lever arrangement
(219)	Film wire termination (short) for flexible printed wiring (57A and 12E styles only)
(220)	Film wire termination (long) for flexible printed wiring (57A and 12E styles only)
(624)	Cadmium free zinc-cobalt plating
(0PX)	Premating contact (X denotes premating contact designation)

Specials

For special requirements, please contact factory with specifications and drawings. Amphetronix has in-house capability to meet and custom build your special requirements for its range of MIL-C-26482 62IN series connectors.

Ordering 62IN series connectors

To obtain a specific connector number , write down the connector numbers from the typical example below . Only inserts shown on page 5 can be specified. Connectors are delivered with protective plastic dust caps. deviations specified on page 14 must be included at the end of the connector number whenever required.

