RAINEON

南京睿宁电子科技有限公司

NANJING RAINEON ELECTRONIC TECHNOLOGY CO., LTD

PRODUCT CATALOGUE

Aviation Connectors | Interconnect Technology



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Product Overview

Our GJB599 series environment-resistant quick-disconnect high-density miniature circular electrical connectors are developed to GJB599A-1993 (equivalent to US military standard MIL-DTL-38999) and are fully interchangeable and mateable with other domestic and foreign products designed to GJB599 or MIL-DTL-38999.

Our GJB599 range covers four product series:

- GJB599 Series I - bayonet coupling, scoop-proof, 1 to 128 contacts
- GJB599 Series II - bayonet coupling, short shell, not scoop-proof, 1 to 128 contacts
- GJB599 Series III - triple-start self-locking threaded coupling, scoop-proof, 1 to 128 contacts
- GJB599 Series IV - push-pull quick lock, scoop-proof, 1 to 128 contacts

Beyond the standard products above, we can modify connectors to meet specific user needs.

Series designation cross-reference:

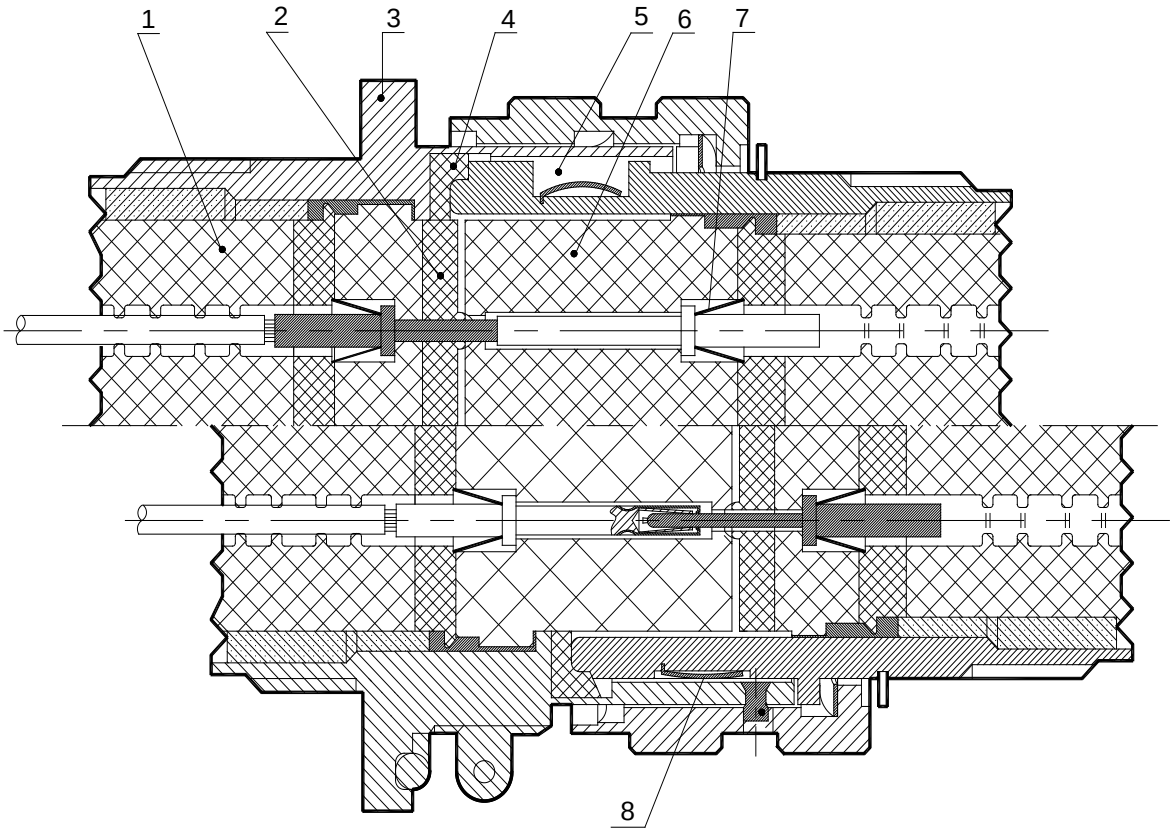
Series	Series I, II	Series III, IV
Our series designation	JY	J599
GJB599A series designation	JY	J599
MIL-DTL-38999 series designation	MS	D38999

Note: the part numbers of our GJB599 series connectors are identical to GJB599A;
except for the series designation, the part numbering is identical to MIL-DTL-38999.

GJB599 series environment-resistant quick-disconnect high-density miniature circular electrical connectors · intended use:

- GJB599 Series I: generally for systems needing quick disconnect under blind mating. These connectors withstand high-intensity vibration and, with suitable accessories, suit harsh sand and damp environments.
- GJB599 Series II: lighter and more compact; generally for applications without high-intensity vibration or sand and damp exposure, and suited to confined spaces.
- GJB599 Series III: generally for systems needing quick disconnect under blind mating. These connectors withstand high-intensity vibration and, with suitable accessories, suit harsh sand and damp environments.
- GJB599 Series IV: generally for systems needing quick disconnect under blind mating. These connectors withstand high vibration at high temperature and suit locations with little turning space; with suitable accessories they suit harsh sand and damp environments.

Product Structure



1. Grommet: protects the wires and keeps out liquids, dust and other foreign matter.
2. Interfacial seal: seals every mated contact.
3. Receptacle shell: protects the pins during blind mating.
4. O-ring: seals the mating interface.
5. Five keys on the shell: ensure correct contact alignment on mating.
6. Socket insert: closed at the entry to protect the contacts during mating.
7. Retaining spring ring: reliably retains the contacts.
8. Grounding spring fingers: establish shell-to-shell conductivity before the contacts engage.

Product Overview

- Bayonet coupling system for quick locking and release;
- Scoop-proof: protects contacts during blind mating;
- Master key/keyway polarisation prevents mismating;
- EMI/RFI shielding and shell conductivity;
- Excellent resistance to shock and vibration;
- Good fluid immersion performance;
- Widely used in aviation, aerospace and military systems. With suitable accessories they can be used in harsh sand and damp environments;
- Standards: MIL-DTL-38999, GJB599A-1993;
- Quality class: general military (J), to Q/Lk30002-2004, detail specification for GJB599A Series I environment-resistant quick-disconnect high-density miniature circular electrical detail spec for GJB599A Series I.



Materials

- Shell: aluminium alloy
  Finish: olive-drab cadmium (B)
  Electroless nickel (F)
  Passivated stainless steel (E)
- Insulator: thermoplastic
- O-ring: silicone elastomer
- Contacts: gold-plated copper alloy

Mechanical Performance

- Sine vibration: 294 m/s² ², 10 to 2000 Hz
- Random vibration: 96 (m/s ²)²/Hz, 408 m/s², 100 to 1000 Hz
- Random vibration: 480 (m/s ²)²/Hz, 100 to 300 Hz
- Life: 500 mating cycles
- Shock: 2940 m/s² 3ms
- Contact retention (min.): #22D: 44 N; #20: 67 N;
  #16: 111 N; #12: 111 N;
  #8 coax: 111 N; #8 triax: 111 N.

Electrical Performance

- Withstanding voltage (V r.m.s.), mated

Service rating conditions	M	N	I	II
Sea level	1300	1000	1800	2300
21000m	800	600	1000	1000

- Contact resistance (with silver-plated wire) and rated current:

Contact size	Mating end dia. mm	Contact resistance mΩ	Rated current A
#22D	φ0.762	⩽14.6	5
#20	φ1.02	⩽7.3	7.5
#16	φ1.588	⩽3.8	13
#12	φ2.39	⩽1.8	23
#10	φ3.18	⩽1.0	33
#8	φ3.61	⩽0.6	46
#6	φ4.52	⩽0.5	60
#4	φ5.72	⩽0.3	80

- Insulation resistance: >= 5000 MOhm (500 V DC);
- Shell conductivity:
  Olive-drab cadmium (B): 2.5 mV; electroless nickel (F): 1 mV
  Passivated stainless steel (E): 50 mV
- Shielding (min. attenuation) (B, F):
  90 dB at 100 MHz, 85 dB at 1 GHz, 50 dB at 10 GHz
- Coaxial contacts:
  Frequency: 0 to 1 GHz; characteristic impedance: 50 Ohm
  VSWR <= 1.3
- #8 triaxial contacts:
  Bandwidth: 0 to 20 MHz
  Rated voltage: 500 V AC max.
  125 V AC at 21000 m
  Voltage drop: inner and middle contacts <= 55 mV at 1 A
  Outer contact: <= 75 mV at 12 A

Environmental Performance

- Temperature range: cadmium (B) -65 °C to +175 °C; nickel (F) -65 °C to +200 °C
  Passivated stainless steel (E): -65 °C to +200 °C
- Salt spray: 500 h (B, E), 48 h (F)
- Damp heat: GJB1217 test 1002 procedure II, 24 h per cycle, 10 cycles
- Fluid immersion: resistant to 12 fluids including hydraulic oil and coolant

Part Numbering

US military series designation:	MS	27467	T	13	F	08	S	A	-U	
Our series designation:	JY	27467	T	13	F	08	S	A	-U	
	(1)	(2)	(3)	(4)	(5)(6)(7)			(8)	(9)	

Series designation: MS for the US military standard; JY for our designation.

(2) Shell style:

27466 - wall-mount square-flange front-mount receptacle
27467 - straight plug
27468 - nut-mount receptacle
27496 - box-mount square-flange front-mount receptacle
27505 - box-mount square-flange rear-mount receptacle
27656 - wall-mount square-flange rear-mount receptacle

(3) Class: T class environment-resistant - wall-mount and nut-mount fixed connectors.

Shell tail with thread and accessory anti-rotation teeth (backshell mountable) (only JY27466, JY27656, JY27468, JY27467)
Class E environment-resistant - box-mount and bulkhead-mount fixed connectors.
No tail thread (JY27496, JY27505 only)

(4) Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25

(5) Finish: B - olive-drab cadmium (conductive), -65 °C to +175 °C
F - electroless nickel (conductive), -65 °C to +200 °C
E - passivated stainless steel (conductive), -65 °C to +200 °C

(6) Insert contact arrangement: see the insert arrangement drawings.

(7) Contact type: P - standard crimp pin; S - standard crimp socket
A - no pins or user-specified pins; B - no sockets or user-specified sockets
PH - solder-cup pin; SH - solder-cup socket
PC - short vertical PCB pin; SC - short vertical PCB socket
PL - long vertical PCB pin; SL - long vertical PCB socket

(8) Master key/keyway polarisation: N - standard (may be omitted); A, B, C, D

(9) Marking: U - left plug; I - arrangement positions marked with numerals;
no mark - (right) plug, arrangement positions to GJB1611;

Note 1: in GJB599A and MIL-DTL-38999 part numbering, everything except the series designation is identical;

Note 2: when the contact type is PC or SC, the standard master key position "N" must be marked;

Note 3: for PCB connectors see the PCB hole layout drawing;

Note 4: if backshells are ordered with the product, quote "product part number + backshell part number"; backshells may also be ordered separately.

Note 5: when the contact type is PH or SH, #8 contacts default to solder type; to change #8 solder contacts to #8 coax, add "/G" after the part number; to change #8 solder contacts to #8 triax, add "/G1" after the part number, e.g. JY27467T19F18PHN/G1

Note 6: bulkhead hermetic receptacles use pin contacts only and must mate with socket-contact plugs; each bulkhead hermetic receptacle requires if two plugs are used,
i.e. left plug and (right) plug; the left plug is marked U, the (right) plug is unmarked.

Note 7: receptacles are supplied without a rubber gasket by default; if needed, select from the "rubber gasket dimensions" in the relevant series catalogue. Rubber gaskets come in standard and conductive types; state the gasket code and quantity when ordering.

Note 8: the rubber gasket for JY27469Y differs from other products; select it from the "rubber gasket dimensions" in the catalogue.

Crimp contacts

Contact Size	Pin diameter (mm)	Barrel inner diameter (mm)	Barrel outer diameter (mm)	Wire cross-section area (mm 2	Equivalent AWG (AWG)	Wire insulation O.D. (mm)	Insertion/removal tool code
#22D	ϕ0.76	0.85	1.2	0.125	26	0.76-1.37	M81969/14-01
				0.2	24		
				0.35	22		
#20	ϕ1.02	1.17	1.78	0.2	24	1.02-2.11	M81969/14-10
				0.35	22		
				0.5	20		
#16	ϕ1.59	1.68	2.62	0.5	20	1.65-2.77	M81969/14-03
				0.8			
				1.0	18		
				1.2	16		
#12	ϕ2.39	2.49	3.84	2.0	14	2.46-3.61	M81969/14-04
				3.0	12		

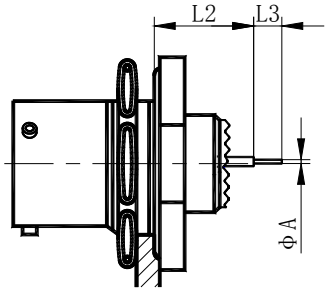
Solder contacts

Contact size	Solder cup bore (mm)	Max. wire gauge (AWG)
#22D	ϕ0.9	22
#20	ϕ1.3	20
#16	ϕ1.8	16
#12	ϕ2.85	12

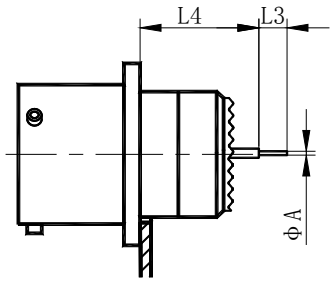
PCB terminal tail dimensions:

Straight PCB terminal receptacles and terminal tail dimensions

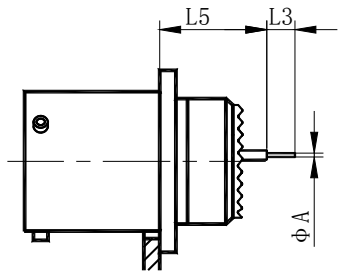
27468 receptacle



27466 receptacle



27656 receptacle

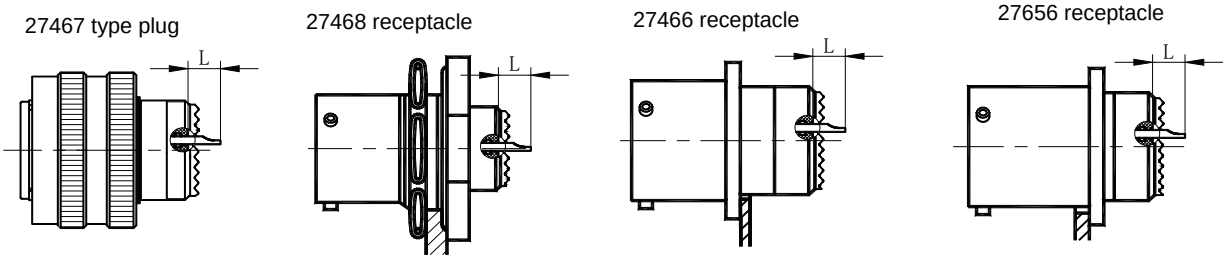


Straight PCB terminal contact sizes		L3	A
#22D	Long vertical PCB terminal contacts PL/SL	8.50	0.70
	Short vertical PCB terminal contacts PC/SC	4.00	
#20	Long vertical PCB terminal contacts PL/SL	8.50	0.70
	Short vertical PCB terminal contacts PC/SC	5.10	
#16	Long vertical PCB terminal contacts PL/SL	8.50	1.15
	Short vertical PCB terminal contacts PC/SC	5.10	

Length with different contact sizes			Shell size 09, 11, 13, 15, 17, 19	Shell size 21, 23, 25
	Contacts fitted			
L2	#22D pin	Min.	9.07	9.07
		Max.	10.06	10.06
	#22D socket	Min.	8.74	8.74
		Max.	10.06	10.06
	#20 or #16 Pins, sockets	Min.	9.24	9.24
		Max.	10.23	10.23
L4	#22D pin	Min.	13.91	13.91
		Max.	15.08	15.08
	#22D socket	Min.	13.58	13.58
		Max.	15.08	15.08
	#20 or #16 Pins, sockets	Min.	14.08	14.08
		Max.	15.25	15.25
L5	#22D pin	Min.	11.60	12.35
		Max.	12.47	13.22
	#22D socket	Min.	11.27	12.02
		Max.	12.47	13.22
	#20 or #16 Pins, sockets	Min.	11.77	12.52
		Max.	12.64	13.39

Note: for GJB599 Series I PCB holes see the PCB hole layout drawing.

Solder terminal tail dimensions

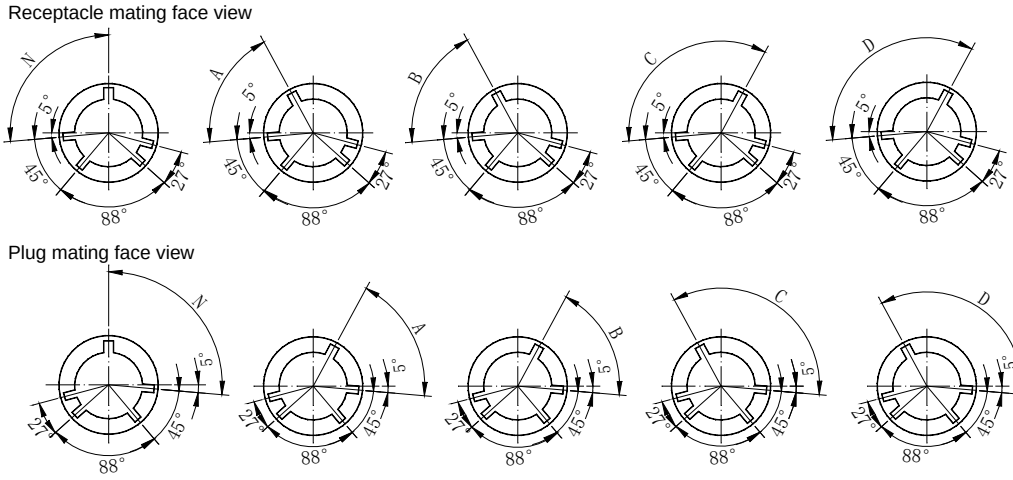


Contact no.	Contact type	L
#22D	Pin/socket	3.5
#20	Pin/socket	3.5
#16	Pin/socket	4
#12	Pin/socket	4
#8	Pin/socket	9

Note: L is the distance from the contact solder cup tail to the grommet face.

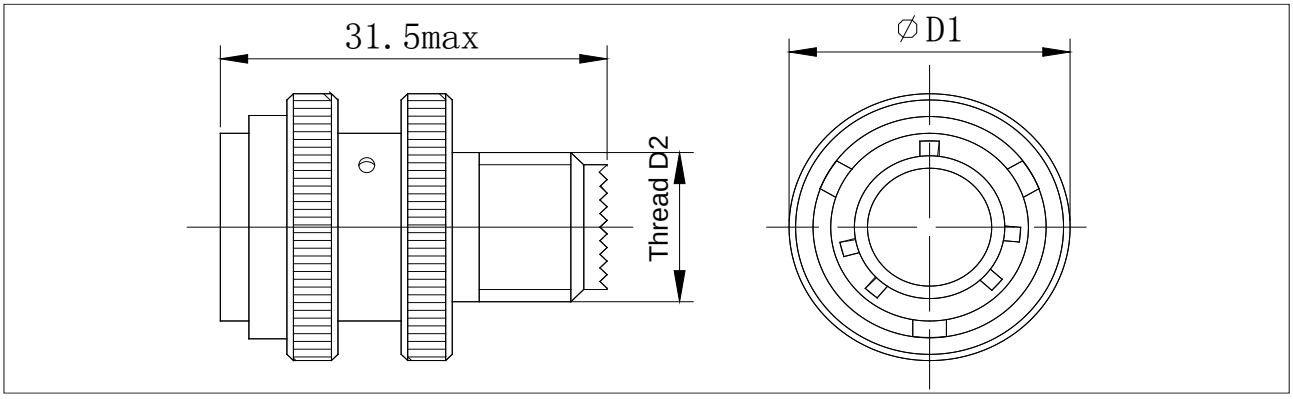
Master key/keyway polarisation

Polarisation is set by the master key/keyway; the other minor keys/keyways stay fixed



Shell size	Angle in degrees (°)				
	N	A	B	C	D
09	95	77	—	—	113
11	95	81	67	123	109
13	95	75	63	127	115
15	95	74	61	129	116
17	95	77	65	125	113
19	95	77	65	125	113
21	95	77	65	125	113
23	95	80	69	121	110
25	95	80	69	121	110

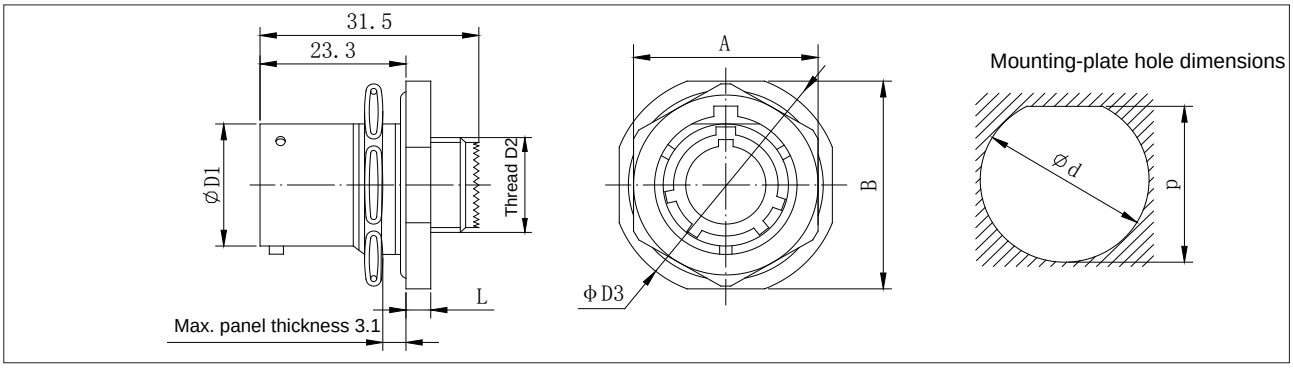
JY27467 plug



J	Y	2	7	4	6	7	T						

Shell size	D1 max		Thread D2
09	21.90	09	0.4375-28 UNEF-2A
11	24.99	11	0.5625-24 UNEF-2A
13	29.20	13	0.6875-24 UNEF-2A
15	32.50	15	0.8125-20 UNEF-2A
17	35.70	17	0.9375-20 UNEF-2A
19	38.50	19	1.0625-18 UNEF-2A
21	41.68	21	1.1875-18 UNEF-2A
23	44.85	23	1.3125-18 UNEF-2A
25	48.00	25	1.4375-18 UNEF-2A

JY27468 nut-mount receptacle

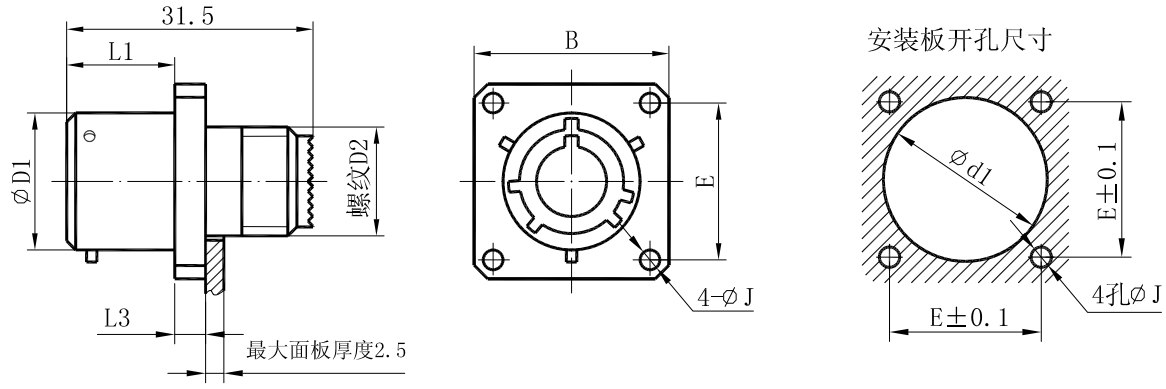


J	Y	2	7	4	6	8	T						

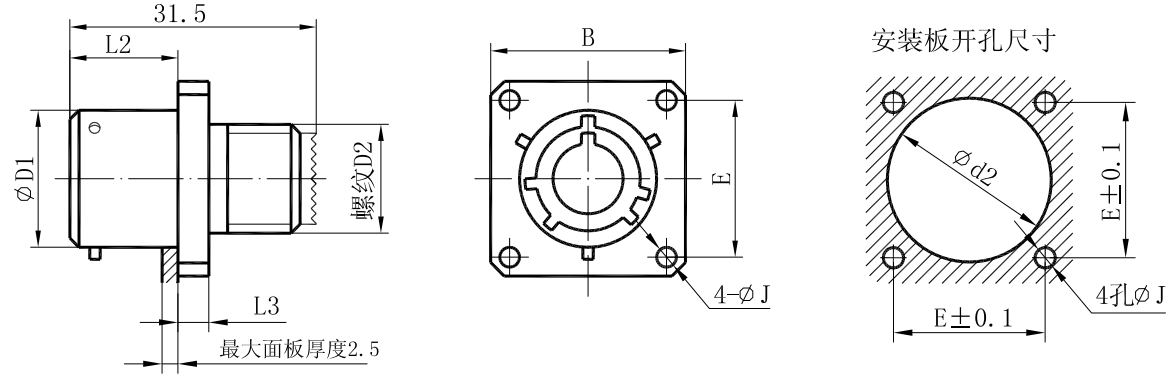
Shell size	D1	Thread D2	D3max	Lmax		A	B	d	P
09	14.53	0.4375-28 UNEF-2A	30.54	3.00	09	22.40	27.00	17.78	17.02
11	17.78	0.5625-24 UNEF-2A	35.23	3.00	11	25.40	31.80	20.96	19.59
13	21.59	0.6875-24 UNEF-2A	38.40	3.00	13	30.20	34.90	25.65	24.26
15	24.80	0.8125-20 UNEF-2A	41.64	3.00	15	33.40	38.10	28.83	27.56
17	27.94	0.9375-20 UNEF-2A	44.75	3.00	17	36.50	41.30	32.01	30.73
19	30.66	1.0625-18 UNEF-2A	49.53	3.79	19	39.70	46.00	35.18	33.91
21	33.83	1.1875-18 UNEF-2A	52.67	3.79	21	42.90	49.20	38.35	37.08
23	37.00	1.3125-18 UNEF-2A	55.94	3.79	23	46.00	52.70	41.53	40.26
25	40.20	1.4375-18 UNEF-2A	59.02	3.79	25	50.80	55.60	44.70	43.43

JY27466 wall-mount square-flange front-mount receptacle
JY27656 wall-mount square-flange rear-mount receptacle

JY27466 插座



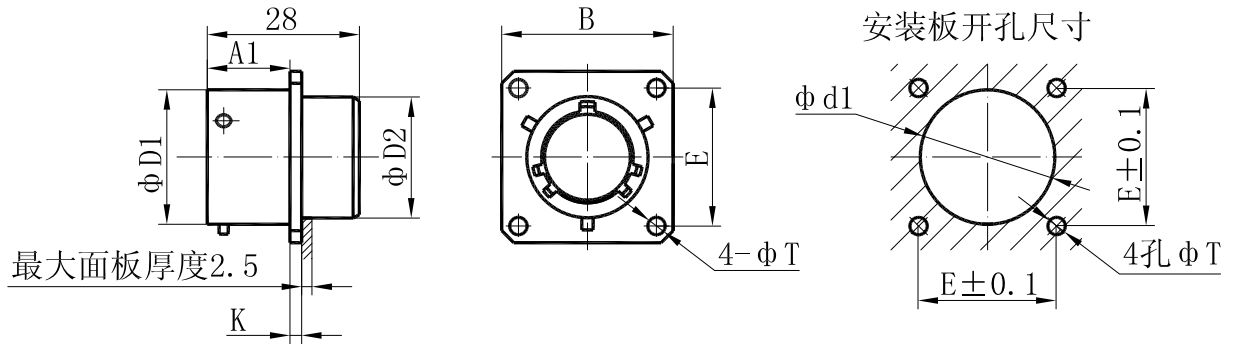
JY27656 插座



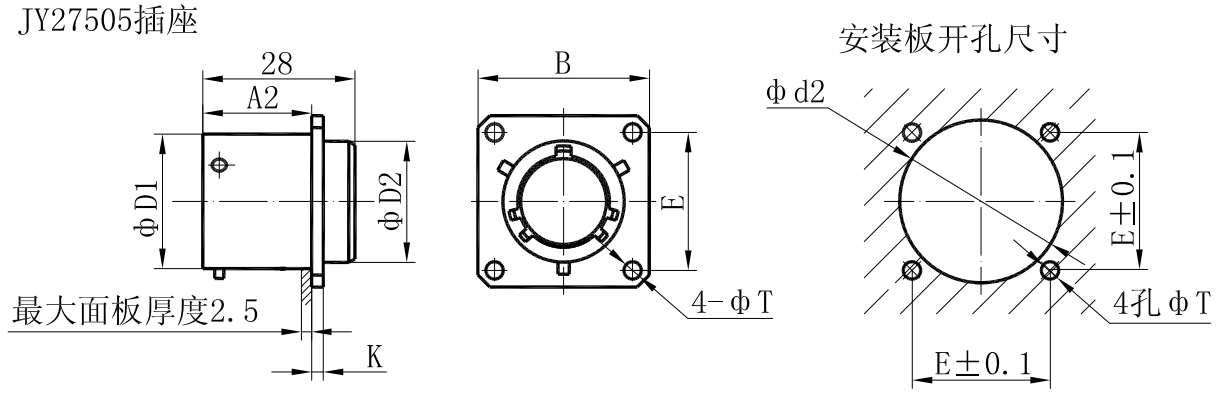
Shell size	D1	Thread D2	L1	L2	L3	B	E	d1 min	d2 min	J
09	14.53	0.4375-28 UNEF-2A	16.05	20.83	2.48	23.80	18.26	13.11	16.89	3.25
11	17.80	0.5625-24 UNEF-2A	16.05	20.83	2.48	26.20	20.62	15.88	20.22	3.25
13	21.59	0.6875-24 UNEF-2A	16.05	20.83	2.48	28.60	23.00	19.05	24.36	3.25
15	24.80	0.8125-20 UNEF-2A	16.05	20.83	2.48	30.96	24.61	23.01	27.55	3.25
17	27.94	0.9375-20 UNEF-2A	16.05	20.83	2.48	33.32	26.97	25.81	30.69	3.25
19	30.66	1.0625-18 UNEF-2A	16.05	20.83	2.48	36.53	29.36	28.98	33.4	3.25
21	33.83	1.1875-18 UNEF-2A	15.29	20.08	3.24	39.70	31.76	32.16	36.12	3.25
23	37.00	1.3125-18 UNEF-2A	15.29	20.08	3.24	42.88	34.93	34.93	39.74	3.91
25	40.20	1.4375-18 UNEF-2A	15.29	20.08	3.24	46.02	38.10	37.69	42.99	3.91

JY27496 box-mount square-flange front-mount receptacle
JY27505 box-mount square-flange rear-mount receptacle

JY27496插座



JY27505插座



J	Y	2	7	4	9	6	E						

Shell size	D1	D2	A1	A2		K	B	E	T	d 1min	d2 min
09	14.53	11.2	16.1	20.9	09	2.4	23.80	18.26	3.2	13.11	16.89
11	17.78	14.5	16.1	20.9	11	2.4	26.20	20.62	3.2	15.88	20.22
13	21.59	18.0	16.1	20.9	13	2.4	28.60	23.02	3.2	19.05	24.36
15	24.77	20.5	16.1	20.9	15	2.4	30.96	24.62	3.2	23.01	27.55
17	27.94	23.8	16.1	20.9	17	2.4	33.32	26.98	3.2	25.81	30.69
19	30.66	26.5	16.1	20.9	19	2.4	36.53	29.36	3.2	28.98	33.4
21	33.83	29.7	15.3	20.1	21	3.1	39.70	31.76	3.2	32.16	36.12
23	37.00	32.8	15.3	20.1	23	3.1	42.88	34.93	3.7	34.93	39.74
25	40.18	36.0	15.3	20.1	25	3.1	46.02	38.10	3.7	37.69	42.99

GJB599 Series I Environment-Resistant High-Density Miniature Circular Hermetic Connectors

Materials

- Shell: stainless steel
  Finish: passivated stainless steel (E), nickel-plated stainless steel (N)
- Hermetic insulator: glass

Environmental Performance

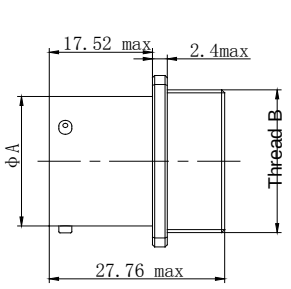
- Temperature range: passivated stainless steel (E) -65 °C to +200
  Nickel-plated stainless steel (N): -65 °C to +200 °C
- Salt spray: 500 h (E), 48 h (N)
- Leak rate 1 x 10 $^{3}Pa \cdot cm^{3}/s$

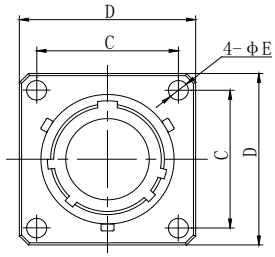
Part Numbering

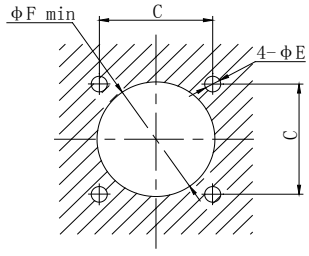
US military series designation:	MS	27469	Y	13	E	8	P	N
Our series designation:	JY	27469	Y	13	E	8	P	N
	(1)	(2)	(3)	(4)	(5)	(6)(7)		(8)

Series designation: MS for the US military standard; JY for our designation.
Shell style: 27469 - wall-mount square-flange hermetic receptacle (contact us for accessories)
27470 - nut-mount hermetic receptacle
27471 - solder-mount hermetic receptacle
Y - hermetic
(4) Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25
Finish: E - passivated stainless steel
N - nickel-plated stainless steel
Insert arrangement: see page 87
Contact type: P - solder pin
X - pin contacts with solder eyelet (hermetic type)
(8) Master key/keyway polarisation: N - standard (may be omitted); A, B, C, D
Note 1: except for the series designation, the part numbering is identical to MIL-DTL-38999.
Note 2: if backshells are ordered with the product, quote "product part number + backshell part number"; backshells may also be ordered separately.

JY27469 wall-mount square-flange front-mount hermetic receptacle





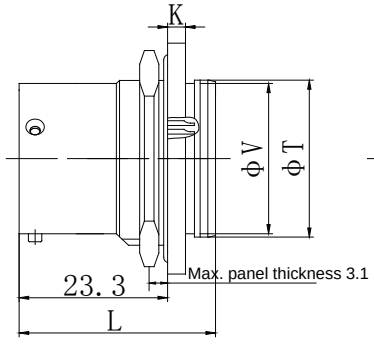


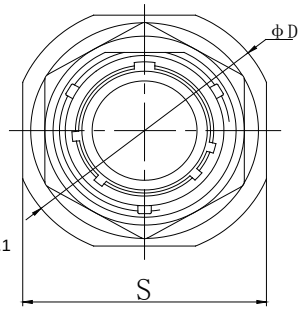
Special accessory; contact us to order
Our part number

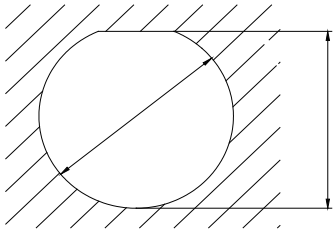
J	Y	2	7	4	6	9	Y						

Shell size	A	B	C		D	E	F
09	14.5	0.6875-24	18.26	09	23.8	3.25	18.4
11	17.8	0.8125-20	20.62	11	26.2	3.25	21.7
13	21.6	0.9375-20	23.01	13	28.6	3.25	25.5
15	24.8	1.0625-18	24.61	15	30.96	3.25	28.7
17	27.94	1.1875-18	26.97	17	33.32	3.25	31.84
19	30.66	1.3125-18	29.36	19	36.53	3.25	34.56
21	33.8	1.4375-18	31.75	21	39.7	3.25	37.7
23	37.0	1.5625-18	34.93	23	42.88	3.73	40.9
25	40.2	1.6875-18	38.1	25	46	3.75	44.4

JY27470 nut-mount hermetic receptacle



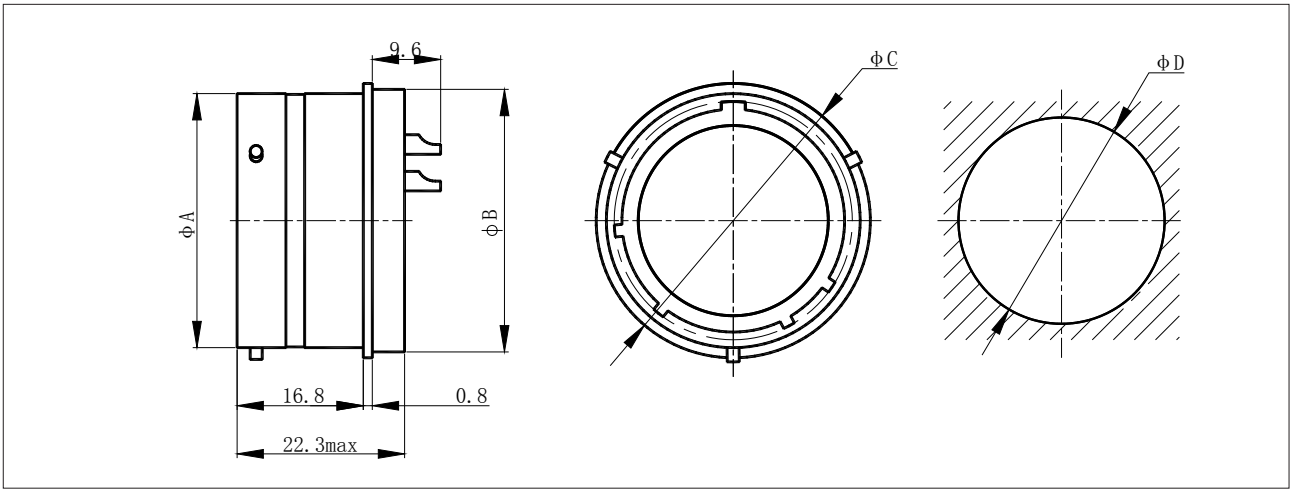




J	Y	2	7	4	7	0	Y						

Shell size	K	L	V		T	D	S	P	d
09	2.8	30.2	15.3	09	16.31	30.2	27	17.02	17.78
11	2.8	30.2	18.4	11	19.46	34.9	31.8	19.59	20.96
13	2.8	30.2	21.6	13	22.66	38.1	34.9	24.26	25.65
15	2.8	30.2	24.8	15	25.86	41.3	38.1	27.56	28.83
17	2.8	30.2	28.0	17	29.01	44.5	41.3	30.73	32.01
19	3.6	30.8	31.2	19	32.21	49.2	46.0	33.91	35.18
21	3.6	30.8	34.3	21	35.36	52.4	49.2	37.08	38.35
23	3.6	30.8	37.5	23	38.56	55.6	52.4	40.26	41.53
25	3.6	30.8	40.7	25	41.71	58.7	55.6	43.43	44.70

JY27471 solder-mount hermetic receptacle



J	Y	2	7	4	7	1	Y						

Shell size	ϕA max	ΦBmax		ϕCmax	ΦD
9	14.60	17.07	9	19.05	17.6
11	17.80	19.84	11	21.44	20.3
13	21.60	23.01	13	24.61	23.5
15	24.80	29.36	15	30.94	26.7
17	28.00	29.36	17	30.94	29.9
19	30.70	31.75	19	33.23	32.3
21	33.90	34.93	21	36.53	35.4
23	37.00	38.10	23	39.70	38.6
25	40.20	41.28	25	42.88	41.8

GJB599 Series I Environment-Resistant High-Density Miniature Circular Bulkhead Hermetic Connectors

Materials

- Shell: stainless steel
- Hermetic insulator: glass

Finish: passivated stainless steel (E), nickel-plated stainless steel (N)

Environmental Performance

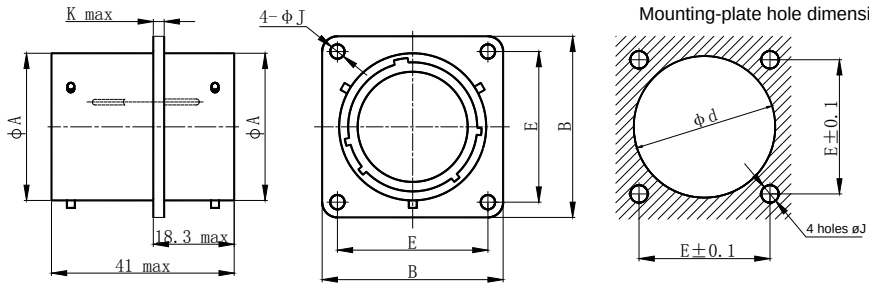
- Temperature range: passivated stainless steel (E) -65 °C to +200
- Salt spray: 500 h
- Leak rate: 1 x 10 ^{3}Pa · cm^{3}/s

Part Numbering

US military series designation:	MS	27466	Y	13	E	8	C	A
Our series designation:	JY	27466	Y	13	E	8	C	A
	(1)	(2)	(3)	(4)	(5)(6)		(7)	(8)

Series designation: MS for the US military standard; JY for our designation.
Shell style: 27466 - wall-mount square-flange hermetic receptacle (uses rear-mounted gasket)
27468 - nut-mount hermetic receptacle
Class: Y - glass-sintered hermetic
(4) Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25
Finish: E - passivated stainless steel; N - nickel-plated stainless steel
Insert arrangement: see page 87.
Contact type: C - bulkhead pin
(8) Master key/keyway polarisation: N - standard (may be omitted); A, B, C, D
Note: except for the series designation, the part numbering is identical to MIL-DTL-38999.

JY27466 wall-mount flange bulkhead hermetic receptacle

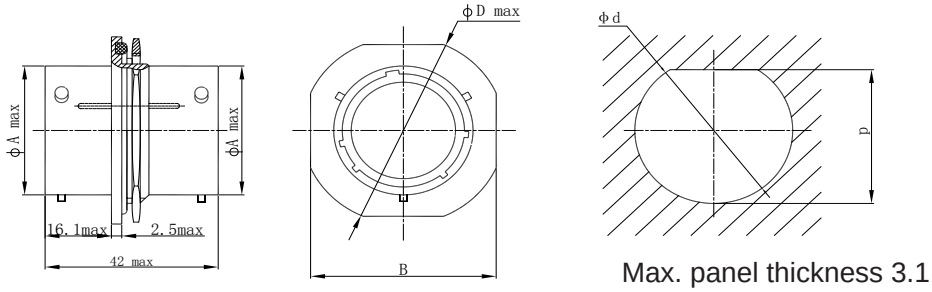


Use with rear-mounted gasket

J	Y	2	7	4	6	6	Y						

Shell size	ΦA max	K max		B	E	ΦJ	Φd
9	14.60	3.00	9	23.80	18.26	3.20	16.89
11	17.80	3.00	11	26.20	20.62	3.20	20.2
13	21.60	3.00	13	28.60	23.02	3.20	24.36
15	24.80	3.00	15	30.96	24.61	3.20	27.55
17	28.00	3.00	17	33.32	26.97	3.20	30.69
19	30.70	3.00	19	36.50	29.36	3.20	33.4
21	33.90	3.00	21	39.70	31.76	3.20	36.2
23	37.00	3.00	23	42.90	34.93	3.70	39.74
25	40.20	3.00	25	46.00	38.10	3.70	42.99

JY27468 nut-mount bulkhead hermetic receptacle

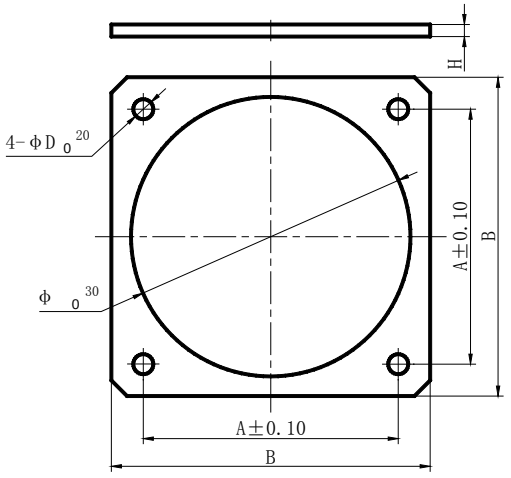


Max. panel thickness 3.1

J	Y	2	7	4	6	8	Y						

Shell size	ΦA max	ΦD max		B	$\phi d^{+.2}_{0}$	P
9	14.60	30.54	9	27.35	17.70	16.99
11	17.80	35.23	11	32.10	20.88	19.53
13	21.60	38.40	13	35.31	25.58	24.26
15	24.80	41.62	15	38.49	28.80	27.53
17	28.00	44.75	17	41.63	31.98	30.68
19	30.70	49.53	19	46.37	33.15	33.86
21	33.90	52.67	21	49.58	38.28	37.06
23	37.00	55.94	23	52.76	41.50	40.01
25	40.20	59.02	25	55.93	44.68	43.41

J599 Series I Rubber Gasket Dimensions



Fits shell size	Front-mount standard gasket size	Front-mount conductive gasket size	A	B	C	D		H
						Standard gasket	Conductive rubber gasket	
09	Lk7.854.1261	Lk7.757.129	18.26	23.80	11.2	2.5	3.2	1.5
11	Lk7.854.1262	Lk7.757.130	20.62	26.20	14.5	2.5	3.2	1.5
13	Lk7.854.1263	Lk7.757.131	23.00	28.60	18.0	2.5	3.2	1.5
15	Lk7.854.1264	Lk7.757.132	24.61	30.96	20.7	2.5	3.2	1.5
17	Lk7.854.1265	Lk7.757.133	26.97	33.32	24.0	2.5	3.2	1.5
19	Lk7.854.1266	Lk7.757.134	29.36	36.53	27.0	2.5	3.2	1.5
21	Lk7.854.1267	Lk7.757.135	31.76	39.70	30.2	2.5	3.2	1.5
23	Lk7.854.1268	Lk7.757.136	34.93	42.88	33.4	3.0	3.7	1.5
25	Lk7.854.1269	Lk7.757.137	38.10	46.02	36.7	3.0	3.7	1.5

Fits shell size	Rear-mount standard gasket size	Rear-mount conductive gasket size	A	B	C	D		H
						Standard rubber gasket	Conductive rubber gasket	
09	Lk7.854.1270	Lk7.757.138	18.26	23.80	14.5	2.5	3.2	1.5
11	Lk7.854.1271	Lk7.757.139	20.62	26.20	17.8	2.5	3.2	1.5
13	Lk7.854.1272	Lk7.757.140	23.00	28.60	21.6	2.5	3.2	1.5
15	Lk7.854.1273	Lk7.757.141	24.61	30.96	24.8	2.5	3.2	1.5
17	Lk7.854.1274	Lk7.757.142	26.97	33.32	28.0	2.5	3.2	1.5
19	Lk7.854.1275	Lk7.757.143	29.36	36.53	30.7	2.5	3.2	1.5
21	Lk7.854.1276	Lk7.757.144	31.76	39.70	33.8	2.5	3.2	1.5
23	Lk7.854.1277	Lk7.757.145	34.93	42.88	37.0	3.0	3.7	1.5
25	Lk7.854.1278	Lk7.757.146	38.10	46.02	40.2	3.0	3.7	1.5

JY27469Y front-mount gasket (dedicated)

Fits shell size	Standard gasket code	Conductive gasket code	A	B	C	D		H
						Standard gasket	Conductive gasket	
09	Lk7.757.2465	Lk7.757.461	18.26	23.80	17.4	2.5	3.2	1.5
11	Lk7.757.2466	Lk7.757.462	20.62	26.20	20.6	2.5	3.2	1.5
13	Lk7.757.2467	Lk7.757.463	23.00	28.60	23.8	2.5	3.2	1.5
15	Lk7.757.2468	Lk7.757.464	24.61	30.96	26.9	2.5	3.2	1.5
17	Lk7.757.2469	Lk7.757.454	26.97	33.32	30.1	2.5	3.2	1.5
19	Lk7.757.2470	Lk7.757.465	29.36	36.53	33.3	2.5	3.2	1.5
21	Lk7.757.1766	Lk7.757.124	31.76	39.7	36.5	2.5	3.2	1.5
23	Lk7.757.2471	Lk7.757.466	34.93	42.88	39.6	3	3.7	1.5
25	Lk7.757.2472	Lk7.757.452	38.10	46.02	42.8	3	37	1.5

GJB599 Series I Backshells

Meets GJB1784, the general specification for electrical connector accessories, and mates with products to GJB599A Series I. accessories may be ordered separately or with the connector. Only the common types are listed here; others can be supplied on request to meet other backshell requirements.

Note: in GJB1784 and MIL-C-85049 part numbering, everything except the basic series number is identical, i.e. The basic series number under GJB1784 is "J1784"; under MIL-C-85049 it is "M85049". The two are interchangeable.

When in use, accessories must be locked against loosening, or another effective locking means used:

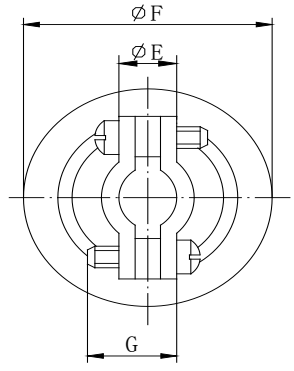
1. Lock with 0.5 mm ø safety wire through the safety hole;
2. Lock by applying thread adhesive to the accessory coupling sleeve and the connector tail thread;
3. Lock by heat-shrinking the whole accessory with heat-shrink tubing;
4. For accessories with a set screw, apply thread adhesive to the set screw.

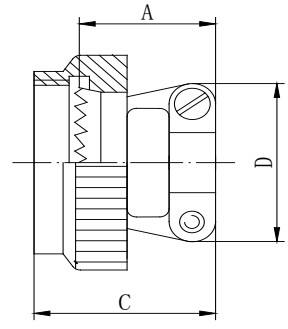
J1784/49 Ordering Code

J1784/	49	–	10	W
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number
(2) Backshell style: 49 - straight cable clamp (for crimp low-frequency connectors)
(3) Backshell nut: - non-self-locking nut
S: self-locking nut
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
(5) Finish: A - black anodised; N - nickel; W - olive-drab cadmium; S - passivated stainless steel
Remark: if the screw must be longer or shorter, add "screw thread length L=**" after the part number.







J	1	7	8	4	/	4	9	–			

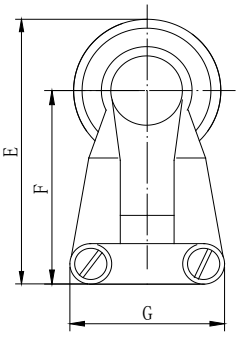
Size	Series I Shell size	Series II Shell size	A max	C max	D max		Fits cable dia. E min	Fits cable dia. E max	F max	G
08	09	08	23.00	28.10	17.00	08	2.49	5.94	16.00	13.50
10	11	10	23.00	28.10	20.00	10	3.90	5.94	19.50	13.50
12	13	12	23.00	28.10	23.00	12	4.83	8.33	22.50	16.30
14	15	14	23.50	28.60	26.30	14	6.60	11.61	26.50	20.00
16	17	16	26.00	31.10	29.30	16	7.19	15.60	29.50	20.00
18	19	18	29.50	34.60	32.30	18	8.26	16.10	32.50	20.00
20	21	20	31.00	37.10	37.30	20	8.71	17.73	35.50	23.50
22	23	22	31.00	37.10	40.30	22	9.68	20.90	38.50	26.50
24	25	24	31.00	37.10	43.30	24	10.26	21.67	41.50	29.50

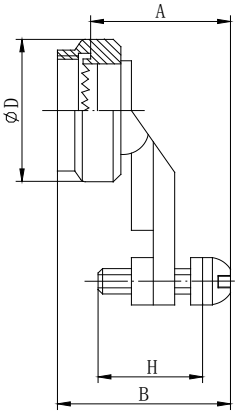
J1784/47 Ordering Code

J1784/	47	–	10	W
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number
Backshell style: 47 - 90° cable clamp (for crimp low-frequency connectors)
(3) Backshell nut: - non-self-locking nut
S: self-locking nut
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: A - black anodised
N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Remark: if the screw must be longer or shorter, add "screw thread length L=**" after the part number.







J	1	7	8	4	/	4	7	–			

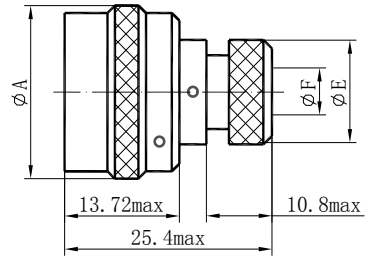
Size	Series I	Series II	A	B	C			Dmax		E	F	Gmax	H
size	Shell size	Shell size	max	max	max	min		Self-locking	Non-self-locking				
08	09	08	25.70	32.20	5.94	2.49	08	16.00	15.00	26.00	19.00	16.30	13.50
10	11	10	26.50	33.00	5.94	3.90	10	19.50	18.50	29.00	20.00	19.30	13.50
12	13	12	28.50	35.00	8.33	4.83	12	22.50	22.00	34.00	24.00	22.30	16.30
14	15	14	29.40	35.90	11.61	6.60	14	26.50	26.00	38.00	26.00	25.60	20.00
16	17	16	29.90	36.40	15.60	7.19	16	29.50	29.00	41.00	27.00	29.00	20.00
18	19	18	30.40	36.90	16.10	8.26	18	32.50	32.00	46.00	31.00	32.00	20.00
20	21	20	30.90	37.40	17.73	8.71	20	35.50	35.00	49.00	32.00	36.80	23.50
22	23	22	32.90	39.40	20.90	9.68	22	38.50	38.00	54.00	36.00	40.00	26.50
24	25	24	32.90	39.40	21.67	10.62	22	41.50	41.00	59.00	39.00	43.00	29.50

J1784/62 Ordering Code

J1784/	62	-10	W	D
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number
Backshell style: 62 - lanyard adapter
(3) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: A - black anodised
N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Vent hole: omitted - no vent hole
D - with vent hole





J	1	7	8	4	/	6	2	-			

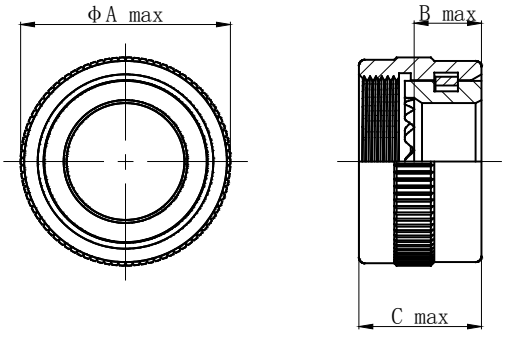
Size	Series I Shell size	Series II Shell size	A max		E max	F min
08	09	0816		08	13.54	6.35
10	11	10	19.5	10	15.37	9.53
12	13	12	22.5	12	19.66	12.70
14	15	14	26.5	14	21.29	15.88
16	17	16	29.5	16	24.46	19.05
18	19	18	32.5	18	26.47	20.62
20	21	20	35.5	20	30.91	23.80
22	23	22	38.5	22	34.42	26.97
24	25	24	41.5	24	w36.65	30.18

J1784/27 Ordering Code

J1784/	27	–	10	N
(1)	(2)	(3)	(4)	(5)

J1784/: basic series number
Backshell style: 27 - straight backshell (for crimp low-frequency connectors)
Backshell nut style S: self-locking
- non-self-locking
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: N - nickel
W - olive-drab cadmium
S - passivated stainless steel





J	1	7	8	4	/	2	7	–			

Size	Shell size		Self-locking				Non-self-locking		
	Series I	Series II	A	B	C		A	B	C
08	8	9	21.82	7.87	14.99	08	19.1	6.60	13.70
10	10	11	24.99	7.87	14.99	10	21.6	6.60	13.70
12	12	13	29.36	7.87	14.99	12	24.5	6.60	13.70
14	14	15	32.54	7.87	14.99	14	27.9	6.60	13.70
16	16	17	35.71	7.87	14.99	16	31.8	6.60	13.70
18	18	19	38.51	7.87	14.99	18	35.6	6.60	13.70
20	20	21	41.62	7.87	14.99	20	38.1	6.60	13.70
22	22	23	44.86	7.87	14.99	22	41.9	6.60	13.70
24	24	25	48.03	7.87	14.99	24	44.5	6.60	13.70

J1784/17 Ordering Code

J1784/	17	-24	W	10	A
(1)	(2)	(3)	(4)	(5)	(6)

(1) J1784/- basic series number
Backshell style: 17 - shielded-termination sealed cable clamp
(3) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Cable clamp size: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10
Length code: standard (unmarked), A, B, C



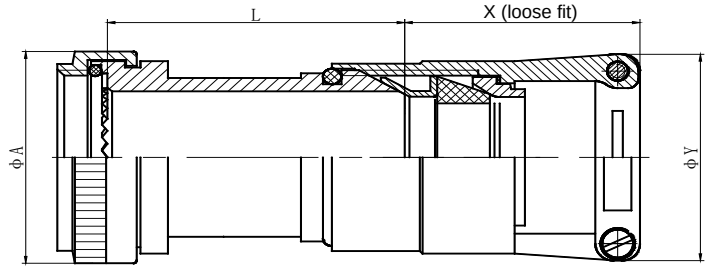


Table 1

Size	Series I Shell size	Series II Shell size	Cable clamp size min	Cable clamp size max	A MAX
08	09	08	01	02	19.1
10	11	10	01	03	21.6
12	13	12	02	04	25.4
14	15	14	02	05	29.2
16	17	16	02	06	31.8
18	19	18	03	07	35.6
20	21	20	03	08	39.4
22	23	22	03	09	41.9
24	25	24	04	10	47.0

Table 2

Cable clamp size	Fits cable dia. min	Fits cable dia. max	Y max	X max
01	1.57	3.18	19.84	31.75
02	3.18	6.35	24.61	31.75
03	6.35	9.53	26.97	31.75
04	9.53	12.70	29.36	31.75
05	12.70	15.88	31.75	33.32
06	15.88	19.05	34.93	34.93
07	19.05	22.23	38.10	38.10
08	22.23	25.40	41.28	41.28
09	25.40	28.58	44.45	41.28
10	28.58	31.75	47.63	41.28

Table 3

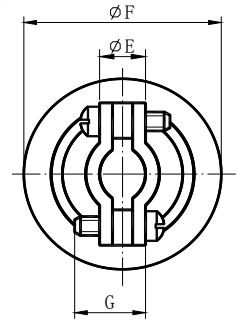
Size	Length code	L
8-24	Standard (unmarked)	38.1
8-24	A	63.5
14-24	B	88.9
20-24	C	114.3

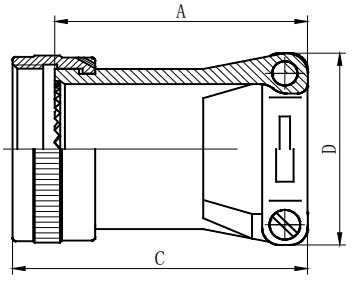
Special Backshells

J1784/	49H00	–	12	W
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number
Backshell style: 49H00 - 49 type extended straight cable clamp (solder products only)
Backshell nut style S: self-locking
- non-self-locking
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: A - black anodised
N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Remark: if the screw must be longer or shorter, add "screw thread length L=**" after the part number.







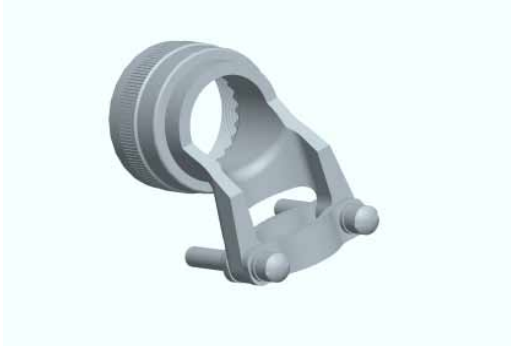
J	1	7	8	4	/	4	9	H	0	0	–		

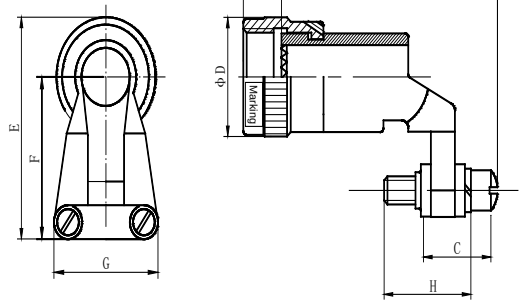
Size	Series II Shell size	Series I Shell size	A max	Cmax	Dmax	Fmax		Fits cable dia. E		G
								min	max	
8	8	9	31.00	37.50	17.00	17.5	8	2.49	5.94	13.50
10	10	11	32.00	38.50	20.00	21.5	10	3.90	5.94	13.50
12	12	13	32.50	39.00	23.00	24.5	12	4.83	8.33	16.30
14	14	15	33.50	40.00	26.30	27.5	14	6.60	11.61	20.00
16	16	17	36.00	42.50	29.30	31.5	16	7.19	15.60	20.00
18	18	19	39.50	46.00	32.30	34.0	18	8.26	16.10	20.00
20	20	21	46.00	52.50	37.30	37.5	20	8.71	17.73	23.50
22	22	23	46.00	52.50	40.30	41.5	22	9.68	20.90	26.50
24	24	25	46.00	52.50	43.30	43.5	24	10.62	21.67	29.50

J1784/47H00 Ordering Code

J1784/	47H00	-	12	N
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number
Backshell style: 47H00 - 47 type extended 90° cable clamp (solder products only)
Backshell nut style S: self-locking
- non-self-locking
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: A - black anodised
N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Remark: if the screw must be longer or shorter, add "screw thread length L=**" after the part number.





J	1	7	8	4	/	4	7	H	0	0	-		

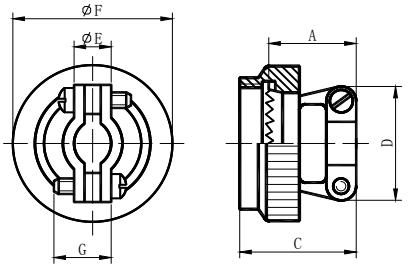
Size size	Series II Shell size	Series I Shell size	A max	B max	Fits cable dia. C min	Fits cable dia. C max		D max	E max	F max	G max	H
8	8	9	34.70	41.20	2.49	5.94	8	17.5	26.00	19.00	16.30	13.50
10	10	11	35.50	42.00	3.90	5.94	10	21.5	29.00	20.00	19.30	13.50
12	12	13	36.50	43.00	4.83	8.33	12	24.5	34.00	24.00	22.30	16.30
14	14	15	39.40	45.90	6.60	11.61	14	27.5	38.00	26.00	25.60	20.00
16	16	17	39.90	46.40	7.19	15.60	16	31.5	41.00	27.00	29.00	20.00
18	18	19	40.40	46.90	8.26	16.10	18	34.0	46.00	31.00	32.00	20.00
20	20	21	47.90	54.40	8.71	17.74	20	37.5	49.00	32.00	36.80	23.50
22	22	23	47.90	54.40	9.68	20.90	22	41.5	54.00	36.00	40.00	26.50
24	24	25	47.90	54.40	10.62	21.67	24	43.5	59.00	39.00	43.00	29.50

J1784/49A Ordering Code

J1784/	49A	-12	W
(1)	(2)	(3)	(4)

(1) J1784/- basic series number
Backshell style: 49A - 49 type short straight cable clamp (for crimp low-frequency connectors)
(3) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24
Finish: A - black anodised
N - nickel
W - olive-drab cadmium
S - passivated stainless steel
Remark: if the screw must be longer or shorter, add "screw thread length L=**" after the part number.





J	1	7	8	4	/	4	9	A	-				

Size	Series II Shell size	Series I Shell size	A max	Cmax		Dmax	Fmax	Fits cable dia. E		G
								min	max	
8	8	9	16.70	23.20	8	17.00	15.00	2.49	5.94	13.50
10	10	11	16.70	23.20	10	20.00	18.50	3.90	5.94	13.50
12	12	13	19.00	25.50	12	23.00	21.60	4.83	8.33	16.30
14	14	15	19.00	25.50	14	26.30	25.60	6.60	11.61	20.00
16	16	17	19.00	25.50	16	29.30	29.00	7.19	15.60	20.00
18	18	19	19.00	25.50	18	32.30	32.00	8.26	16.10	20.00
20	20	21	19.00	25.50	20	37.30	35.00	8.71	17.73	23.50
22	22	23	19.00	25.50	22	40.30	38.00	9.68	20.90	26.50
24	24	25	19.00	25.50	24	43.30	41.00	10.62	21.67	29.50

J1784/C Ordering Code

J1784/	C	−12	N
(1)	(2)	(3)	(4)

(1) J1784/- basic series number

Backshell style: C - special shielding accessory (for crimp low-frequency connectors)

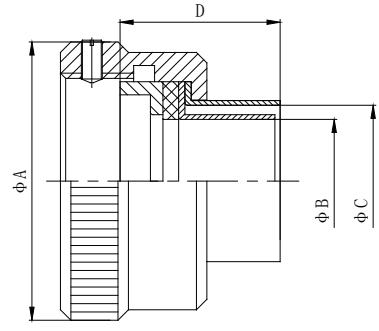
(3) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24

Finish: N - nickel (solder barrel tin-antimony plated)

W - olive-drab cadmium (solder barrel tin-antimony plated)

S - passivated stainless steel (solder barrel tin-antimony plated)





J	1	7	8	4	/	C	−						

Size	Series II Shell size	Series I Shell size		ϕA max	ϕB max	ϕC max	D
8	8	9	8	18.5	6.5	9.0	15.4
10	10	11	10	21.5	6.5	9.0	15.4
12	12	13	12	24.5	9.0	11.5	15.4
14	14	15	14	28.5	12.3	14.8	15.4
16	16	17	16	31.5	16.3	18.8	15.4
18	18	19	18	34.5	16.8	19.3	15.4
20	20	21	20	37.5	18.4	20.9	15.4
22	22	23	22	40.5	21.6	24.1	15.4
24	24	25	24	43.5	22.8	25.7	15.4

J1784/C Ordering Code

J1784/	C	-12	N	-A
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number

Backshell style: C - special shielding accessory (for crimp low-frequency connectors)

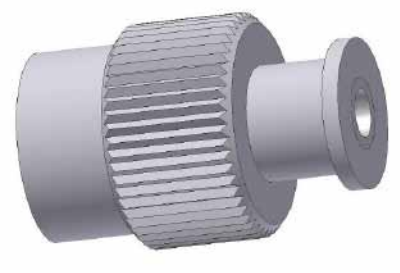
(3) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24

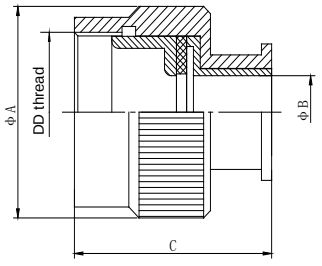
Finish: N - nickel (solder barrel tin-antimony plated)

W - olive-drab cadmium (solder barrel tin-antimony plated)

S - passivated stainless steel (solder barrel tin-antimony plated)

-A: coupling sleeve and solder barrel modified





J	1	7	8	4	/	C	-						

Size	Series II Shell size	Series I Shell size		ϕA max	ϕB max	C ± 0.2
8	8	9	8	19.1	6.73	29.0
10	10	11	10	21.6	8.71	29.0
12	12	13	12	25.4	11.10	29.0
14	14	15	14	29.1	14.27	29.0
16	16	17	16	32.1	17.45	29.0
18	18	19	18	35.6	20.62	29.0
20	20	21	20	38.1	23.08	29.0
22	22	23	22	41.9	26.57	29.0
24	24	25	24	44.5	28.58	29.0

J1784/A Ordering Code

J1784/	A	-16	N	10
(1)	(2)	(3)	(4)	(5)

(1) J1784/- basic series number

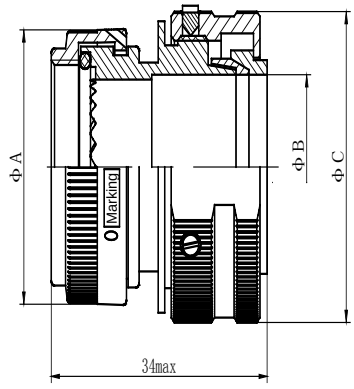
(2) Backshell style: A

(3) Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24

(4) Finish: N - nickel
W - olive-drab cadmium
S - passivated stainless steel

(5) Cable outlet: see table below





J	1	7	8	4	/	A	-			N			

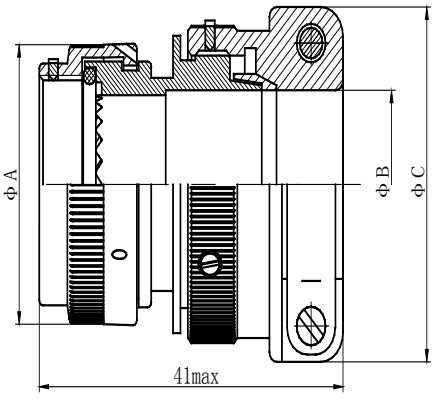
Size	Series II Shell size	Series I Shell size	A max		Cable outlet size	B max	C max
8	8	09	19.0	8	6	6.3	19.3
					10	9.5	22.5
10	10	11	22.0	10	6	6.3	19.3
					13	12.7	25.7
12	12	13	25.0	12	6	6.3	19.3
					16	16	29.0
14	14	15	29.0	14	8	7.9	20.9
					19	19	32.0
16	16	17	32.0	16	8	7.9	19.3
					22	22.2	35.2
18	18	19	35.0	18	13	12.7	25.7
					25	25.4	38.4
20	20	21	38.0	20	13	12.7	25.7
					29	28.5	41.0
22	22	23	41.0	22	16	16	29
					32	31.8	44
24	24	25	44.0	24	19	19	32
					35	35	47

J1784/A Ordering Code

J1784/	A	-16	N	10	-A
(1)	(2)	(3)	(4)	(5)	(6)

(1) J1784/- basic series number
(2) Backshell style: A
(3) Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24
(4) Finish: N - nickel
W - olive-drab cadmium
S - passivated stainless steel
(5) Cable outlet: see table below
(6) Modification: cable clamp added at tail





J	1	7	8	4	/	A	-			N			

Size	Series II Shell size	Series I Shell size	A max		Cable outlet size	B max	C max
8	8	09	19.0	8	6	6.3	26.3
					10	9.5	29.5
10	10	11	22.0	10	6	6.3	26.3
					13	12.7	32.7
12	12	13	25.0	12	6	6.3	26.3
					16	16	36
14	14	15	29.0	14	8	7.9	27.9
					19	19	39
16	16	17	32.0	16	8	7.9	27.9
					22	22.2	42.2
18	18	19	35.0	18	13	12.7	32.7
					25	25.4	45.4
20	20	21	38.0	20	13	12.7	32.7
					29	28.5	48.5
22	22	23	41.0	22	16	16	36
					32	31.8	51.8
24	24	25	44.0	24	19	19	39
					35	35	55

J1784/D Ordering Code

J1784/	D	90	-16	N	A	04
(1)	(2)	(3)	(4)	(5)	(6)	(7)

J1784/: basic series number

Backshell style: D

Configuration: 00 - straight backshell

90 - 90° right-angle accessory

Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24

Finish: N - nickel

W - olive-drab cadmium

S - passivated stainless steel

Ti-Ni ring: 0 - no memory ring

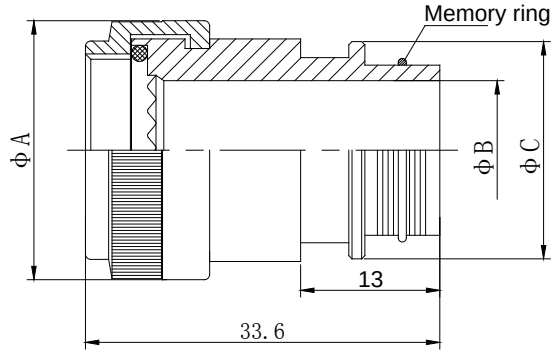
A - optional Ti-Ni ring

Cable outlet dia. or Ti-Ni ring size: without a Ti-Ni ring, state the outlet dia. (mm)

With the optional Ti-Ni ring, state the ring size



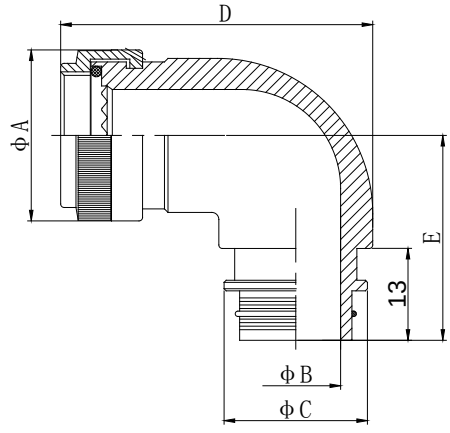
Straight backshell



Straight backshell



Right-angle backshell



Right-angle backshell

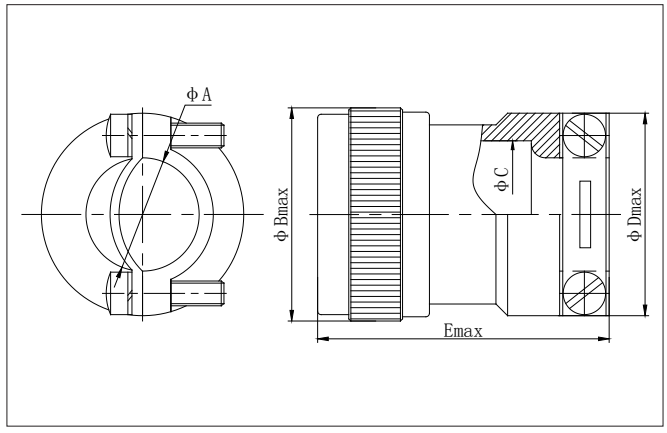
Shell size	Ti-Ni ring Size	Shield braid size	A	D	E	B cable outlet dia.		C	
						Straight	Right-angle	Straight	Right-angle
08/09	TR-04	6 x 10 (0.15)	19	38.2	26	6.3	6.3	14	14
	TR-05	10 x 16 (0.2)				7.9	7.9	15.5	15.5
	TR-06	10 x 16 (0.2)				9.5	–	17.1	–
10/11	TR-04	6 x 10 (0.15)	22	40	26	6.3	6.3	14	14
	TR-05	10 x 16 (0.2)				7.9	7.9	15.5	15.5
	TR-06	10 x 16 (0.2)				9.5	9.5	17.1	17.1
	TR-07	10 x 16 (0.2)				11.1	11.1	18.7	18
	TR-08	16 x 24 (0.3)				12.7	–	20.3	–
12/13	TR-04	6 x 10 (0.15)	25.1	45.2	29	6.3	6.3	14	14
	TR-05	10 x 16 (0.2)				7.9	7.9	15.5	15.5
	TR-06	10 x 16 (0.2)				9.5	9.5	17.1	17.1
	TR-07	10 x 16 (0.2)				11.1	11.1	18.7	18.7
	TR-08	16 x 24 (0.3)				12.7	12.7	20.3	20.3
	TR-10	16 x 24 (0.3)				16	16	23.5	23
14/15	TR-05	10 x 16 (0.2)	29	47	29	7.9	–	15.5	–
	TR-06	10 x 16 (0.2)				9.5	9.5	17.1	17.1
	TR-07	10 x 16 (0.2)				11.1	11.1	18.7	18
	TR-08	16 x 24 (0.3)				12.7	12.7	20.3	20.3
	TR-10	16 x 24 (0.3)				16	16	23.5	23
	TR-12	16 x 24 (0.3)				19	19	26.7	25.5
16/17	TR-05	10 x 16 (0.2)	32	50.5	33	7.9	–	15.5	–
	TR-06	10 x 16 (0.2)				9.5	–	17.1	–
	TR-07	10 x 16 (0.2)				11.1	11.1	18.7	18
	TR-08	16 x 24 (0.3)				12.7	12.7	20.3	20.3
	TR-10	16 x 24 (0.3)				16	16	23.5	23.5
	TR-12	16 x 24 (0.3)				19	19	26.7	26.7
	TR-14	24 x 30 (0.3)				22.2	–	30	–
18/19	TR-08	16 x 24 (0.3)	35	53.5	33	12.7	12.7	20.3	20.3
	TR-10	16 x 24 (0.3)				16	16	23.5	23.5
	TR-12	16 x 24 (0.3)				19	19	26.7	26.7
	TR-14	24 x 30 (0.3)				22.2	22.2	30	30
	TR-16	24 x 30 (0.3)				25.4	25.4	33	33
20/21	TR-08	16 x 24 (0.3)	38	55.5	39	12.7	12.7	20.3	20.3
	TR-10	16 x 24 (0.3)				16	16	23.5	23.5
	TR-12	16 x 24 (0.3)				19	19	26.7	26.7
	TR-14	24 x 30 (0.3)				22.2	22.2	30	30
	TR-16	24 x 30 (0.3)				25.4	25.4	33	33
	TR-18	30 x 40 (0.3)				28.5	–	36.2	–
22/23	TR-10	16 x 24 (0.3)	41	58	39	16	16	23.5	23.5
	TR-12	16 x 24 (0.3)				19	19	26.7	26.7
	TR-14	24 x 30 (0.3)				22.2	22.2	30	30
	TR-16	24 x 30 (0.3)				25.4	25.4	33	33
	TR-18	30 x 40 (0.3)				28.5	28.5	36.2	36.2
	TR-20	30 x 40 (0.3)				31.8	–	39.4	–
24/25	TR-10	16 x 24 (0.3)	44	64	44	–	16	–	23.5
	TR-12	16 x 24 (0.3)				19	19	26.7	26.7
	TR-14	24 x 30 (0.3)				22.2	22.2	30	30
	TR-16	24 x 30 (0.3)				25.4	25.4	33	33
	TR-18	30 x 40 (0.3)				28.5	28.5	36.2	36.2
	TR-20	30 x 40 (0.3)				31.8	31.8	39.4	39.4
	TR-22	30 x 40 (0.3)				35	35	42.5	42

J1784B Ordering Code

J1784B/ 49H00 S 10 S 11
(1)(2) (3) 4. 5. (6)

(1) J1784B/: basic series number (semi-enclosed);
(2) Backshell style: 49H00 - 49 type extended straight cable clamp (solder products only);
(3) Backshell nut style: S - self-locking; - non-self-locking;
(4) Size: 08, 10, 12, 14, 16, 18, 20, 22, 24;
(5) Finish: N - nickel;
W - olive-drab cadmium;
S - passivated stainless steel;
(6) Cable outlet size: see table below.



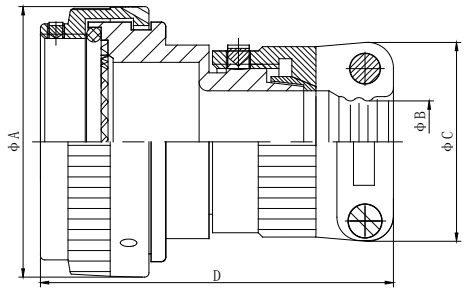


Size (shell size)	A (cable outlet size)	B	C	D	E
10 11	11	20.7	11.6	23.5	37.6
12 13	9	23.8	14.5	22	38.0
12 13	13	23.8	14.5	26	38.0
14 15	16	26.8	17.7	29	39.5
16 17	16	30.1	20.8	29	42.0
18 19	19	32.6	23.5	33	45.0
20 21	21	35.8	26.7	39	52.0
22 23	21.5	39.2	29.9	39.5	52.0
24 25	23	41.8	33	42.5	52.0

J1784B Ordering Code

J1784B/ A - 10 N 13 - A1
(1)(2) 3. 4. (5) (6)

(1) J1784B/: basic series number (semi-enclosed);
(2) Backshell style: A;
(3) Shell size: 10, 12, 14, 16, 18, 20, 22, 24;
(4) Finish: N - nickel;
W - olive-drab cadmium;
S - passivated stainless steel;
TT - titanium alloy, unplated;
(5) Cable outlet size: see table below;
(6) Modification: A1 - tail sleeve knurling moved back.



Size (shell size)	A	B	Cable outlet size	C	D
10 11	22.4	12.7	13	25.5	39.5
12 13	25.4	16	16	28.8	39.5
14 15	29.4	19	19	36.5	39.5
16 17	32.4	22.2	22	39.5	39.5
18 19	35.4	25.4	25	41.4	39.5
20 21	38.4	28.5	29	44	39.5
22 23	41.4	31.8	32	47.8	39.5
24 25	44.4		3535	51	39.5

Protective Cap Ordering Code

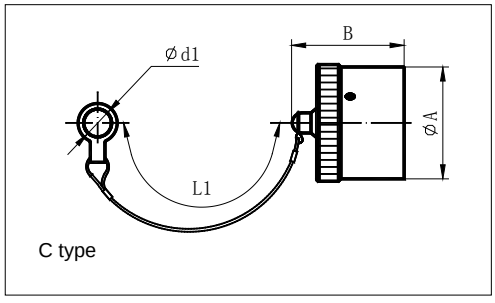
JY27501	B	09	C	L
(1)	(2)	(3)	(4)	(5)

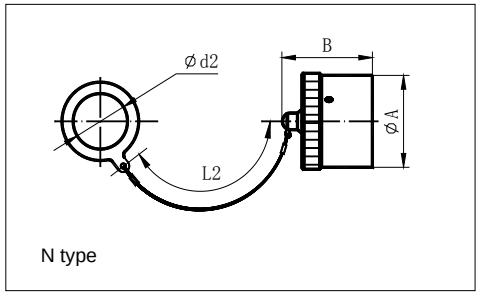
Basic series number: JY27501 - for plugs
JY27502 - for receptacles
Finish: B - olive-drab cadmium
F - nickel
E - passivated stainless steel
Shell size: 09, 11, 13, 15, 17, 19, 21, 23, 25
Type: C - stainless steel lanyard with eyelet
N - stainless steel lanyard with ring (JY27502 only, for JY27468)
A - without stainless steel lanyard
Length: L - 127.00 (may be omitted)
L1, L2 see table below

Note 1: in our 2004 catalogue the cap ordering code used basic series numbers JY/F (for plugs) and JY/E (for receptacles). For standard alignment, later versions use JY27501 (equivalent to JY/F) and JY27502 (equivalent to JY/E). We recommend JY27501 and JY27502.

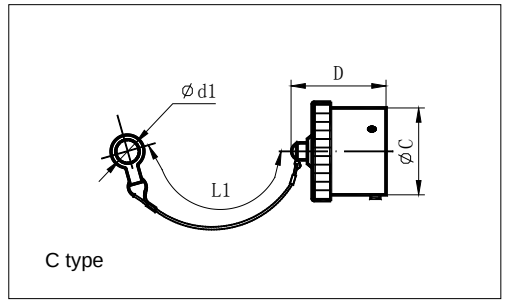
Note 2: protective caps are ordered separately.

Receptacle protective cap





Plug protective cap



J	Y	2	7	5	0	1	B						

Shell size	A max	B max	C max	D max	d1 min	d2 min		L1	L2
08/09	21.2	28.0	20.5	29.5	3.2	17.8	08/09	77.0	77.0
10/11	24.4	28.0	23.7	29.5	3.2	21.3	10/11	77.0	77.0
11/13	28.4	28.0	26.9	29.5	3.2	25.7	11/13	90.0	90.0
14/15	31.6	28.0	30.1	29.5	3.2	29.0	14/15	90.0	90.0
16/17	35.5	28.0	33.2	29.5	3.2	32.0	16/17	90.0	90.0
18/19	37.9	28.0	36.4	29.5	3.2	35.3	18/19	90.0	90.0
20/21	41.1	28.0	39.6	29.5	3.2	38.1	20/21	102.0	102.0
22/23	44.3	28.0	42.8	29.5	3.2	41.7	22/23	102.0	102.0
24/25	47.4	28.0	45.9	29.5	3.2	44.7	24/25	102.0	102.0