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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Features



- Push/pull locking mechanism: reliable, quick and easy to mate/separate.
- Suited to blind mating and other applications; vibration, salt fog and EMI resistant; dust-proof, rain-proof and hermetic versions available.
- Materials: aluminum alloy, naval brass, stainless steel. 13 shell sizes, 18 contacts (1-121), 10 current ratings (3-250A).
- Y27A series offers crimp removable versions.
- Y27F, G, H series for naval environments with waterproof sealing.
- Widely used in aerospace, aviation, marine, communications, etc.
- Complies with GJB2905A-2004; performance per MIL-C-38999
- Enterprise standard: Q/LK.J(11)06-2009

Environmental performance

- Operating temperature: -55degC to +125degC
- Operating altitude: 101.3kPa to 1.33Pa
- Relative humidity: 92%-98% at 40±2degC
- Vibration: sinusoidal 10Hz-2000Hz, acceleration 196 m/s^2
- Random vibration: PSD 0.4G^2/Hz, RMS acceleration 23.1G
- Shock: 980 m/s^2
- Acceleration: 980 m/s^2
- Salt fog: Y27, Y27A, B, C: 48h; Y27F, G, H: Al shell 96h; naval brass and stainless steel 1000 hours
- EMI shielding: min. attenuation 45dB at 100MHz-1GHz
- Immersion: depth 2m (Y27F, G, H series only)

Shell-to-shell continuity

- Aluminum shell: 0.01 Ohm
- 0.05 Ohm if either plug or receptacle shell is stainless steel or iron alloy

Receptacle hermeticity

- Rubber seal: leak rate <=1 $Pa.cm^3/s$
- Hermetic seal: leak rate <=1x10-4 $Pa.cm^3/s$
- Mechanical life: 500 cycles

Electrical (contact rated current A)

Contact mating dia. (mm)		0.8	1.0	1.5	2.5	3.5	5.0	7.0	9.0	10.0	12.0
Current	Y27	3	--	--	--		--	--	--	--	--
	Y27A	--	5	--	--		--	--	--	--	--
	Y27B	--	5	10	25	50	75	100	150	200	--
	Y27C	--	5	10	25	50	75	100	150	200	--
	Y27F	--	7.5	--	--		--	--	--	--	--
	Y27G	--	7.5	13	25	50	75	100	150	200	250
	Y27H	3	5	--	--		--	--	--	--	--

Electrical (contact resistance mOhm)

Mating dia. mm	0.8		1.0		1.5		2.5		3.5	5.0	7.0	9.0	10.0	12.0
Material	Cu	Iron	Cu	Iron	Cu	Iron	Cu	Iron	Cu	Cu	Cu	Cu	Cu	Cu
Before life test	12	25	10	12	7	10	1.5	5	1	0.7	0.5	0.4	0.4	0.3
After life test	15	32	12	20	10	15	3	10	1.5	1	0.8	0.7	0.6	0.5

Electrical (withstand voltage V)

Series	Test voltage (50Hz AC RMS)						
	Y27	Y27A	Y27B	Y27C	Y27F	Y27G	Y27H
Standard condition	750	1300	1500	2500	2300	2300	1300
Low pressure <=1.33Pa	100	200	200	300	200	200	200

Electrical (insulation resistance MOhm)

Series		Y27	Y27A	Y27B	Y27C	Y27F	Y27G	Y27H
Standard condition		1000	4000	5000	5000	5000	5000	4000
Humid.	Normal	500	1000	1000	1000	1000	1000	1000
	Hermetic	200	200	200	200	200	200	--
Damp heat		50	100	100	100	100	100	100
Rain		20	20 20		20	--	--	--
Immersion		--	--	--	--	20	20	20

Ordering information

Y27	A	II	–	08	04	T	J	L	F	II	–	B
1.	2.	3.		4.	5.	6.	7.	8.	9.	10.		11.

(1) Designation:
(2) Sub-series No.:
(3) Main/aux key angle code;
(4) Shell size:
(5) Contact count:
(6) Connector type: T-plug;
(7) Contact style: J-pin; K-socket;
(8) L-cable style;
(9) Disconnect style:
(10) Rear accessory type;
(11) Shell material: blank-Al alloy; B-copper alloy;

Notes:

(1) Key angle codes: I (not shown), II, III.
(2) See part number charts for shell sizes and contact counts of each sub-series.
(3) Contact styles:
Y27: J1 (K1) solder tags stepped, back-to-back in two directions.
Y27A: J (K) solder tags flush, back-to-back in two directions.
J1 (K1): solder tags stepped, back-to-back in two directions.
J3 (K3): crimp removable contacts.
J4 (K4): solder tags flush, single direction.
Y27B: J (K) solder tags flush, single direction.
Y27C: J (K) solder tags flush, single direction.
J1 (K1): solder tags flush, back-to-back in two directions.
Y27F: J (K) solder tags flush, single direction.
Y27G: J (K) solder tags flush, single direction.
J1 (K1): solder tags flush, back-to-back in two directions.
(4) Disconnect: A (blank)-push/pull; F-lanyard release.
(5) Rear accessory: none-No accessory; II-Type II; III-Type III;
IV-Type IV; V-Type V; VI-Type VI; VII-Type VII;
Y27A, B, C take only Type II, IIA, III, VI accessories; see accessory section.
(6) Shell material: B, C for marine environment.

Marking example:

Y27A shell 08, 4-pin plug, key angle II, Type III accessory, model Y27AII-0804TJLIII

Ordering information

Y27	A	II	–	08	04	Z	J	L	M	II	–	B
1.	2.	3.		4.	5.	6.	7.	8.	9.	10.		11.

(1) Designation:
(2) Sub-series No.:
(3) Main/aux key angle code;
(4) Shell size:
(5) Contact count:
(6) Connector type: Z-receptacle;
(7) Contact style: J-pin; K-socket;
(8) Mounting style;
(9) Sealing style:
(10) Rear accessory type;
(11) Shell material: blank-Al alloy; B-copper alloy;

Notes:

(1) Key angle codes: I (not shown), II, III.
(2) See part number charts for shell sizes and contact counts of each sub-series.
(3) Contact styles:

Y27: J1 (K1) solder tags stepped, back-to-back in two directions.
Y27A: J (K) solder tags flush, back-to-back in two directions.
J1 (K1): solder tags stepped, back-to-back in two directions.
J3 (K3): crimp removable contacts.
J4 (K4): solder tags flush, single direction.
Y27B: J (K) solder tags flush, single direction.
Y27C: J (K) solder tags flush, single direction.
J1 (K1): solder tags flush, back-to-back in two directions.
Y27F: J (K) solder tags flush, single direction.
Y27G: J (K) solder tags flush, single direction.
J1 (K1): solder tags flush, back-to-back in two directions.

(4) Mounting: L-cable; B-square flange; B1-square flange;
B2-nut mount; B3-solder mount;
B4-bulkhead (for B4, J means pin contacts on both receptacle ends; if contact code is omitted: one end pin and one end socket)

(5) Sealing: P (blank)-unsealed; M-rubber; H-glass hermetic.
See mating combination chart for receptacle mounting/sealing options.

(6) Rear accessory: none-No accessory; II-Type II; III-Type III; IV-Type IV;
V-Type V; VI-Type VI; VII-Type VII;
Y27A, B, C take only Type II, IIA, III, VI accessories; see accessory section.

(7) Shell material: B, C for marine environment.

Marking example:

Y27B shell 12, 3-socket receptacle, B square flange, key angle I, rubber seal,
no rear accessory, model Y27B-1203ZKBM

Rear accessory marking example

Y27	10	V	B
1.	2.	3.	4.

(1) Designation:
(2) Shell size:
(3) Style: II-heat-shrink sleeve; III-single clamp plate;
IV-double clamp plate; V-shielded sealed;
VI-90deg bent shielded sealed; VII-clamp style;
VIII-shielded;
(4) Variant: A, B, C, D, E, F, L = extended (see Type IV accessory)

Marking example:

Matches Y27B shell 12 plug; heat-shrink cable sealing; model Y27-12II.

JS	27F	10	T	B	L	M
1.	2.	3.	4.	5.	6.	7.

(1) Metal protective cap
(2) Series code: 27A for Y27A, B, C; 27F for Y27F, G, H.
(3) Shell size: 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32
(4) Plug/receptacle: T-plug; Z-receptacle
(5) Shell material: N-Ni-plated Al; H-red anodized Al; B-stainless; C-copper alloy
(6) Chain: (blank)-user supplied; L-with metal chain
(7) Function (receptacle cap only): (blank)-protective; M-protective and rainproof.

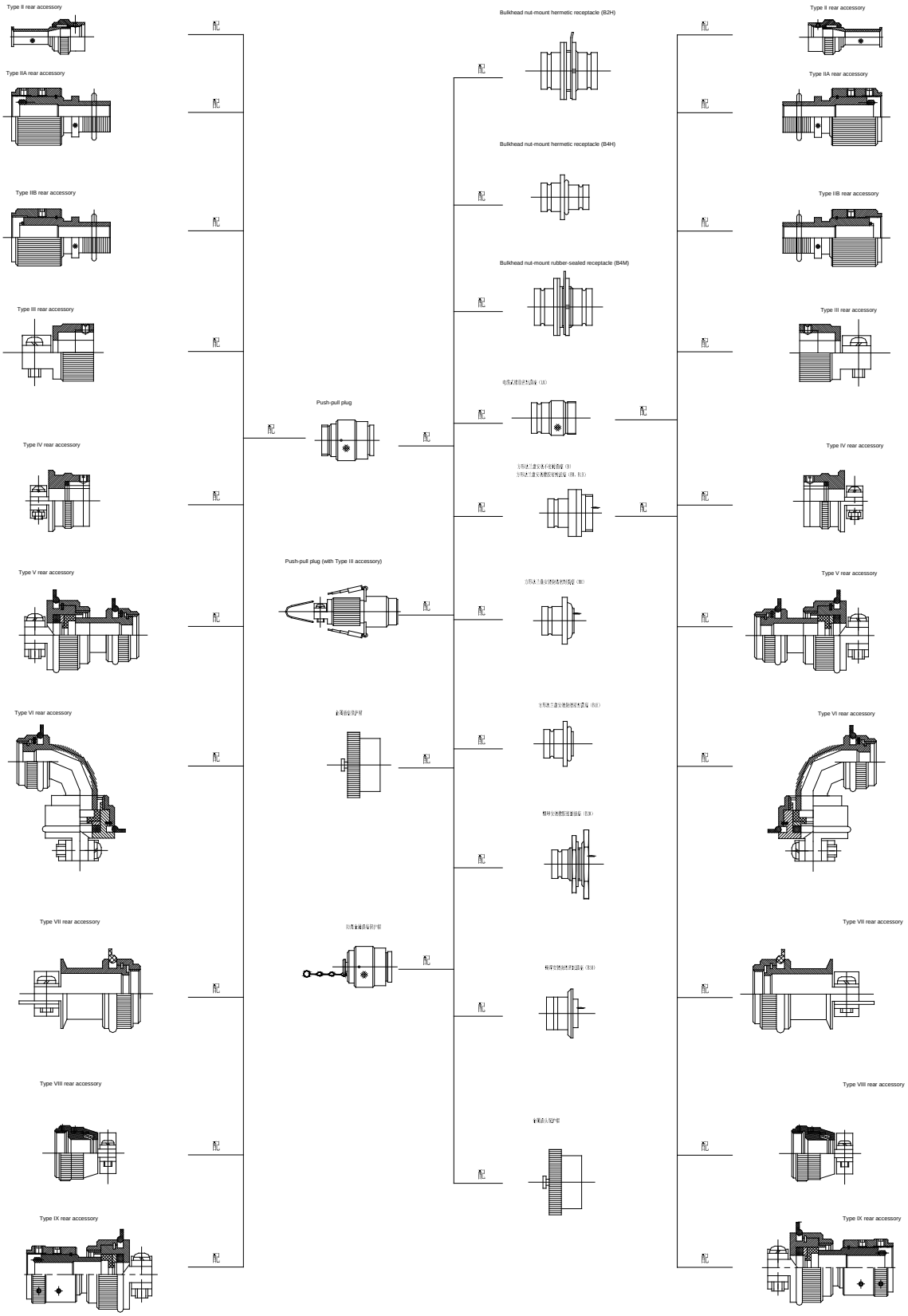
Marking example:

Matches Y27G shell 20 plug; red anodized; no metal chain; model JS27F-20TH

Ordering guide

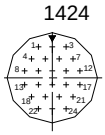
Key angle ·I· products are preferred normally; when mounting two or more identical units on one panel, use key angle ·II· products.

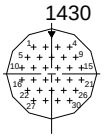
Y27 plug, receptacle, rear accessory and cap mating combinations

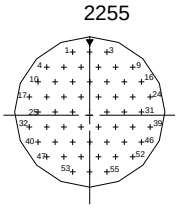


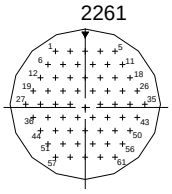
Y27 series arrangement

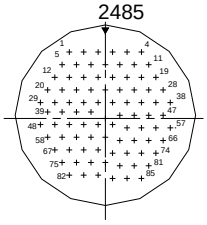
Y27 part number chart







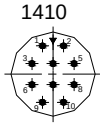


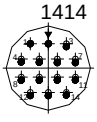


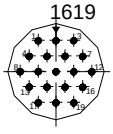
Y27A part number chart

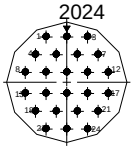


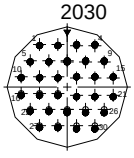


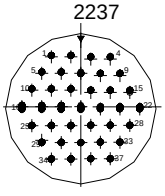


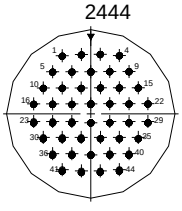


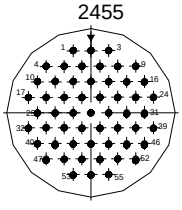


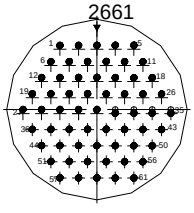






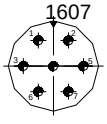


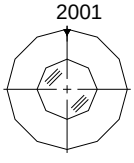


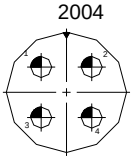


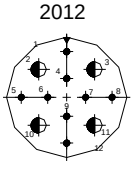
Y27B part number chart

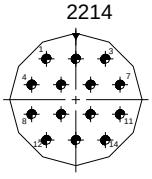


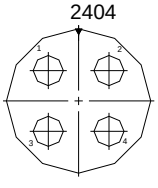


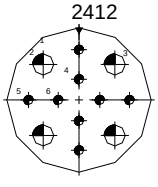


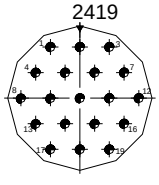


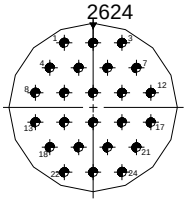




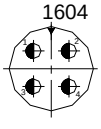


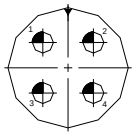


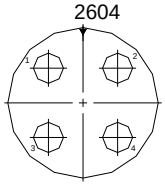


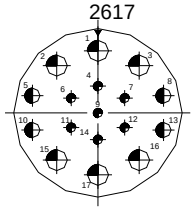


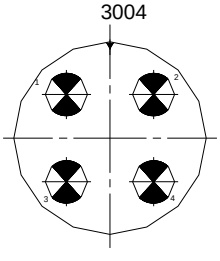
Y27C part number chart

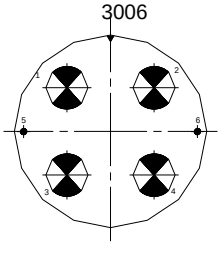






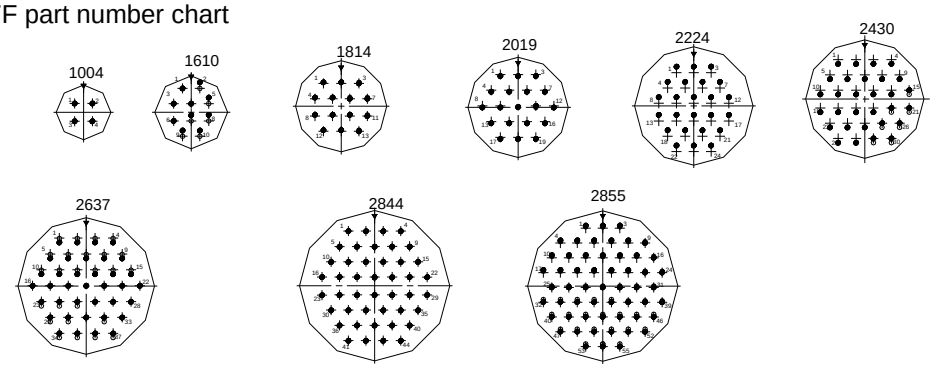




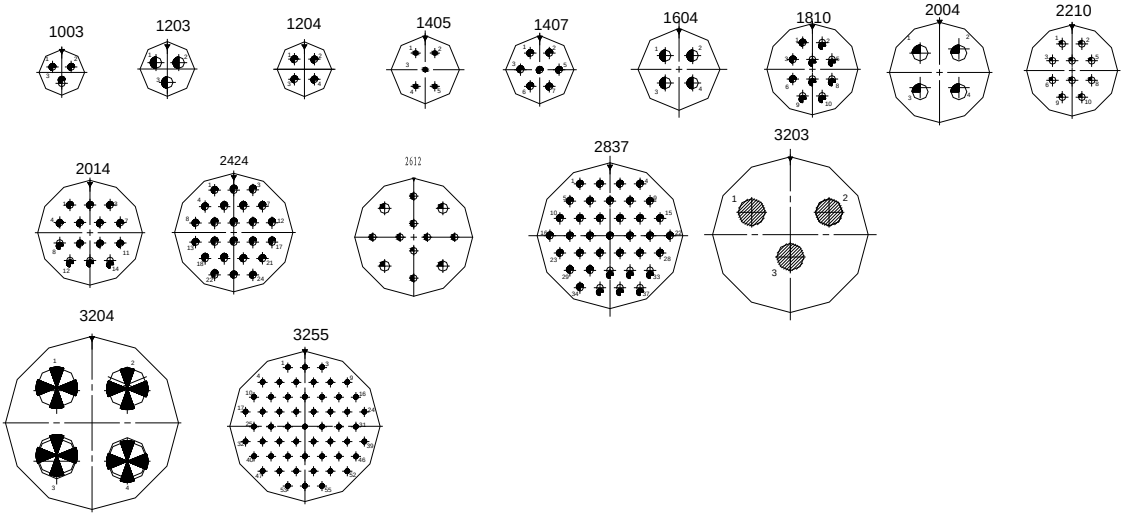


Y27 series arrangement

Y27F part number chart



Y27G part number chart



Y27H part number chart

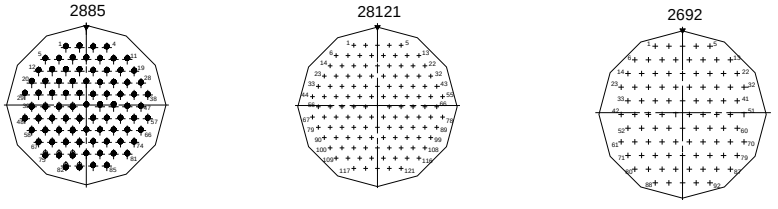
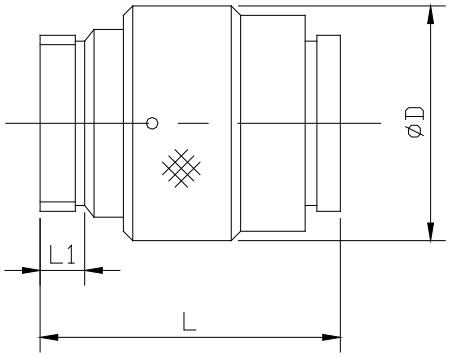


Chart notes:
The solid triangle in the chart indicates main key (slot) position
Contact position numbers are socket hole numbers at the mating face. Note: lanyard-release plugs and plugs ending with W number holes opposite to the chart.
4-digit number above each chart: first two = shell size, last two = contact count.
Contact sizes and codes are shown below

Contact mating dia. (mm)		0.8	1.0	1.5	2.5	3.5	5.0	7.0	9.0	10.0	12.0
Contact rated current (A)	Y27, Y27A, B, C, H	3	5	10	25	50	75	100	150	200	—
	Y27F, G	—	7.5	13	25	50	75	100	150	200	250
Code		+	●								

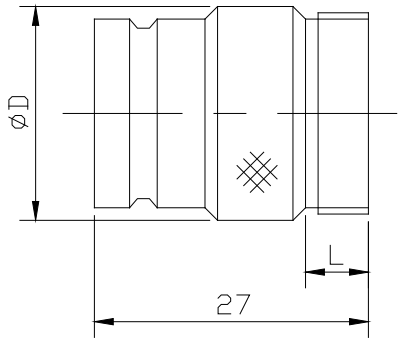
Y27 series plugs



Shell size	D	Y27, Y27A, B, C		Y27F, Y27G		Y27H		Mass of max-contact ver., g
		L	L1	L	L1	L	L1	
08	19.5	31	5	32	6	--	--	15
10	21.5	31	5	32	6	--	--	18
12	23.5	31	5	32	6	--	--	21
14	26	31	5	32	6	--	--	24
16	28	31	5	32	6	--	--	27
18	30	31	5	32	6	--	--	35
20	33.5	31	5	32	6	--	--	40
22	36.5	31	5	32	6	--	--	47
24	39.5	32	6	34	7	--	--	63
26	43	32	6	34	7	34	7	108
28	46	32	6	34	7	34	7	102
30	50	37	6	--	--	--	--	123
32	53	--	--	38	7	--	--	125

Y27 series receptacles

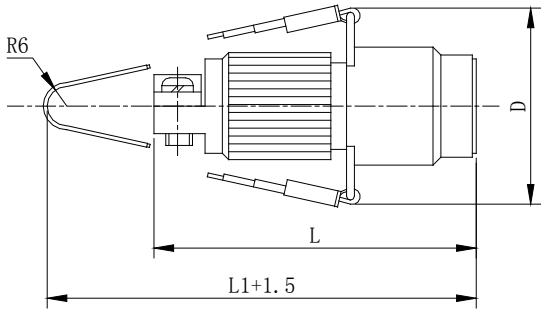
- Cable receptacles
- Y27, Y27A, Y27B, Y27C cable receptacles: unsealed or rubber-sealed



Shell size	08	10	12	14	16	18	20	22	24	26	28	30
D	15	17	19	21	23	25	28	31	33	36	39	42
L	5	5	5	5	5	5	5	5	6	6	6	6
Max-contact mass g	11	11	18	22	23	30	36	43	58	100	92	110

Lanyard-release plug

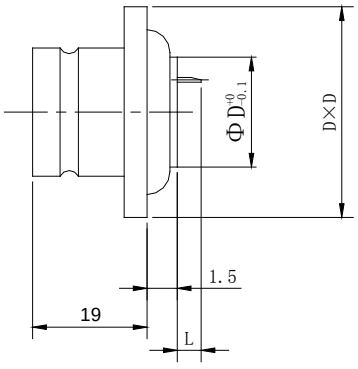
- Y27A-1619TK1LF with Type III accessory: separates under 49.1N axial release force, stroke <=2.5mm
- Y27B-2214TKLF with Type II accessory: separates under 80-110N axial release force, stroke <=2.5mm
- Lanyard-release plug hole numbering is opposite to the chart.

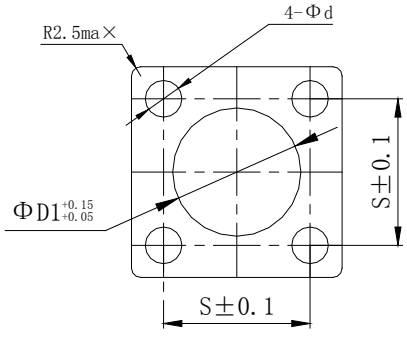


Model	Contacts	D	L	L1	Mass g
Y27A-1619TK1LF III	19	46.6	47.5	120	70
Y27B-2214TKLF II	14	58.6	65.5	132	118
Y27B-2214TKLF II -B	14	58.6	65.5	132	150

Y27 square flange hermetic receptacle (Mounting: B)

Type B Y27 square flange hermetic receptacle has O-ring for good panel sealing; solder end takes no rear accessory.





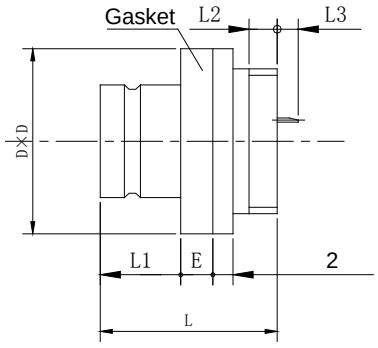
Recommended cutout size

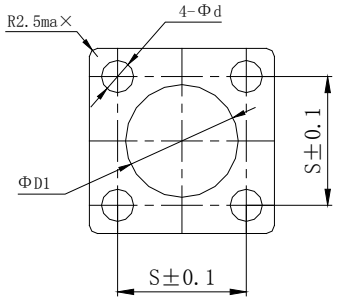
Model	Contacts	D	S	D1	d	Lma×	Mass g
Y27-1424ZJ1BH Y2 II -1424ZJ1BH	24	26	20	15.5	3.6	2	23
Y27-1430ZJ1BH Y2 II -1430ZJ1BH	30	26	20	15.5	3.6	2	24.5
Y27-2261ZJ1BH Y2 II -2261ZJ1BH Y2 III -2261ZJ1BH	61	35	27	25.5	3.6	4	43

Square flange rubber-sealed receptacle

Y27, Y27A, Y27B, Y27C square flange receptacles: unsealed or rubber-sealed.

Y27, Y27A offer mountings B and B1; Y27B, Y27C use B only. B1 flange mounting dimensions are larger than B.





Recommended panel cutout

Y27A series (Mounting B)

Shell size	D	S	D1	d	E	L	L1	L2	L3max	Max-contact mass g
08	21	15	14.5	3.6	1.5	27	16	5	0	10
10	22	16	16.5	3.6	1.5	27	16	5	0	12
12	24	18	18.5	3.6	1.5	27	16	5	1	14
14	26	20	20.5	3.6	1.5	27	16	5	1	20
16	27	21	22.5	3.6	1.5	27	16	5	1	24
18	30	23	24.5	3.6	1.5	27	16	5	2	26
20	32	25	27.5	3.6	1.5	27	16	5	3	30
22	35	27	30.5	3.6	1.5	27	16	5	3	36
24	37	29	33.5	3.6	2.2	27	16	5	0	50
26	40	31	36.5	3.6	2.2	27	16	5	0	69

Y27, Y27A series (Mounting: B1)

Shell size	D	S	D1	d	E	L	L1	L2	L3max	Max-contact mass g
10	24	18	16.5	3.6	1.5	27	16	5	0	13
14	27	21	20.5	3.6	1.5	27	16	5	1	20
16	29	23	22.5	3.6	1.5	27	16	5	1	24
24	41	32	33.5	3.6	2.2	27	16	6	0	50
26	44	35	36.5	3.6	2.2	27	16	6	0	69

Y27B series (Mounting: B)

Shell size	D	S	D1	d	E	L	L1	L2	L3max	Max-contact mass g
12	24	18	18.5	3.6	1.5	27	16	5	2	14
16	27	21	22.5	3.6	1.5	27	16	5	2	24
20	32	26	27.5	3.6	1.5	27	16	5	7	30
22	35	27	30.5	3.6	1.5	27	16	5	2	36
24	42	33	33.5	5.5	2.2	27	16	5	5	50
26	42	32	36.5	3.6	2.2	27	16	5	2	69

Y27C series (Mounting: B)

Shell size	D	S	D1	d	E	L	L1	L2	L3max	Max-contact mass g
16	27	21	22.5	3.6	1.5	27	16	5	2	24
20	32	25	27.5	3.6	1.5	27	16	6	2	30
26	43	34	36.5	5.5	2.2	27	16	6	5	69
30	50	40	42.5	5.5	2.2	27	16	4.5	7	82

Y27F, Y27G series (Mounting: B)

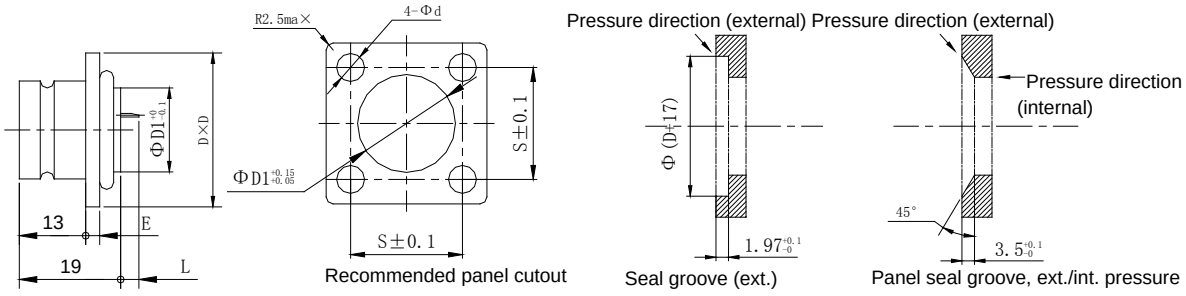
Shell size	D	S	D1	d	E	L	L1	L2	L3max(F)	L3max(G)	Max-contact mass g
08	21	15	14.5	3.6	1.5	29	17.5	5.5	1.2	1.2	10
10	22	16	16.5	3.6	1.5	29	17.5	5.5	1.2	1.2	12
12	24	18	18.5	3.6	1.5	29	17.5	5.5	1.2	2.2	14
14	26	20	20.5	3.6	1.5	29	17.5	5.5	1.2	1.2	20
16	27	21	22.5	3.6	1.5	29	17.5	5.5	1.2	1.2	24
18	30	23	24.5	3.6	2	29	17.5	5.5	1.2	1.2	26
20	33	26	27.5	3.6	2	29	17.5	5.5	1.2	1.2	30
22	36	28	30.5	3.6	2	29	17.5	5.5	1.2	1.2	36
24	39	31	33.5	3.6	2.5	29	17.5	5.5	1.2	1.2	50
26	42	33	36.5	3.6	2.5	29	17.5	5.5	1.2	1.2	69
28	45	36	39.5	3.6	2.5	29	17.5	5.5	1.2	1.2	84
32	52	42	45.5	5.5	2.5	29	17.5	5.5	1.2	6	94

Y27H series (Mounting: B)

Shell size	D	S	D1	d	E	L	L1	L2	L3max(F)	L3max(G)	Max-contact mass g
26	42	33	36.5	3.6	2.5	29	17.5	5.5	1.2	1.2	69
28	45	36	39.5	3.6	2.5	29	17.5	5.5	1.2	1.2	84

Y27, Y27A square flange hermetic receptacle (Mounting: B1)

- Type B1 Y27, Y27A square flange hermetic receptacle has O-ring for good panel sealing.
- Pin contacts; solder end takes no rear accessory.

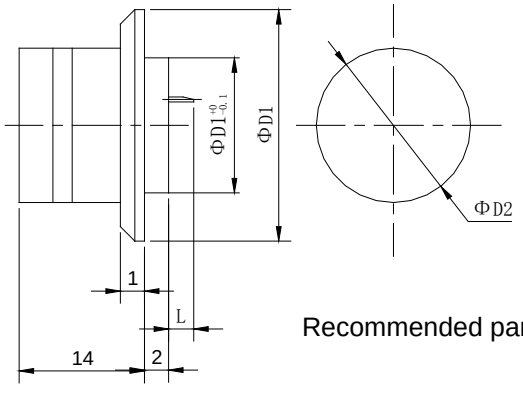


Model	D	S	D1	d	E	Lma×	Mass g
Y27A-1410ZJB1H	30	23.5	16.5	3.6	2	2	14
Y27A-1410ZJB1H*	52	29	22	4.5	2.5	2	14
Y27A-1619ZJB1H	31.5	25	18.5	3.6	2	2	28
Y27-2255ZJB1H	37.5	31	26.5	3.6	2.5	2	43
Y27A-2237ZJB1H	37.5	31	26.5	3.6	2.5	2	42

Note: Y27A-1410ZJB1H* is a custom design, dimensionally different from Y27A-1410ZJB1H.

Y27 solder-mount hermetic receptacle (Mounting: B3)

Y27 solder-mount hermetic receptacle: glass-sealed round flange, soldered to the panel for fixing and sealing; solder end takes no rear accessory.

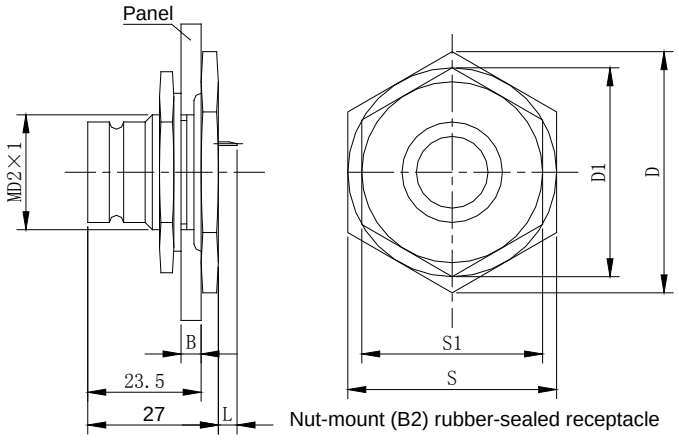


Recommended panel size

Model	D	D1	D2	Lma×	Mass g
Y27-1424ZJ1B3H	22.5	17	17.5	2	14
Y27 Ⅱ -1424ZJ1B3H	22.5	17	17.5	2	14
Y27-1430ZJ1B3H	22.5	17	17.5	2	18
Y27 Ⅱ -1430ZJ1B3H	22.5	17	17.5	2	18

Nut-mount rubber-sealed receptacle (Mounting: B2)

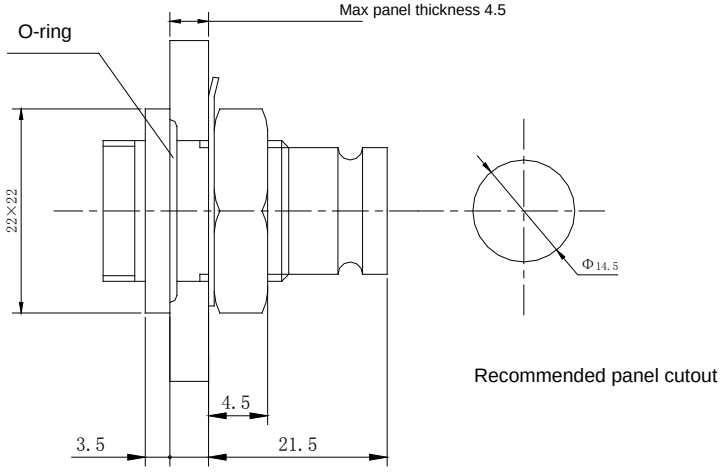
Nut-mount rubber-sealed receptacle has O-ring; hex nut clamps the panel for fixing and sealing; spring washer prevents loosening; solder end takes no accessory.



Nut-mount (B2) rubber-sealed receptacle

Model	D	D1	S	S1	D2	B	Lma×
Y27C-2604ZJB2M	55.4	48.5		42	36	≤6	5
Y27C Ⅱ-2604ZJB2M	55.4	48.5	48	42	36	≤6	5
Y27C-2604ZJB2M	55.4	48.5		42	36	≤6	5
Y27C Ⅱ-2604ZJB2M	55.4		48	42	36	≤6	5

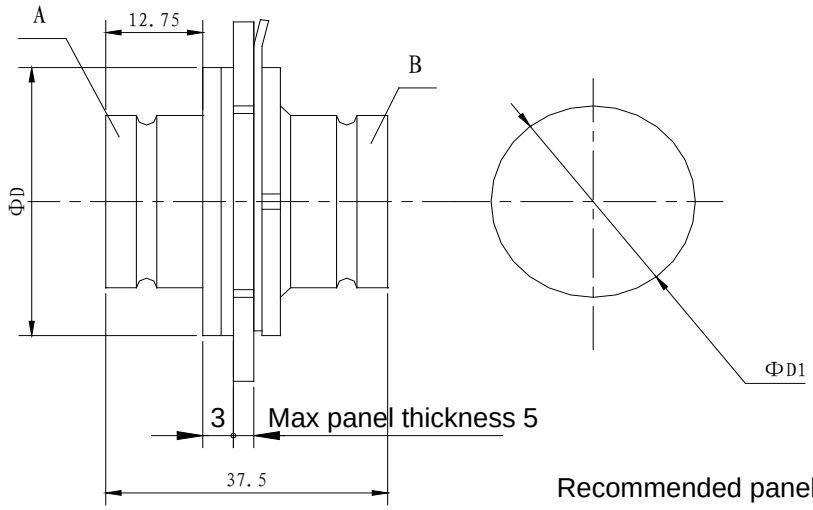
Y27A-0804ZJB2M and Y27AII-0804ZJB2M are custom designs, dimensionally different from the nut-mount series, mass 16g; outline and mounting dims below:



Recommended panel cutout

Bulkhead nut-mount hermetic receptacle (Mounting: B2)

- Bulkhead nut-mount hermetic receptacle: round flange with rubber gasket, round nut clamps panel; anti-rotation washer prevents loosening; pins both ends; max panel thickness 5mm.
- Ends A and B take plugs with key angle codes III and I; plugs mating with end B end with character W in the marking code.



Recommended panel cutout

Model	Contacts	D	D1	Mass g
Y27-2255ZJB2H	55	40	30.5	101

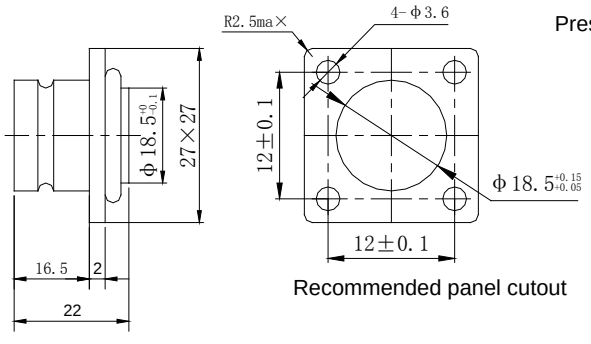
Bulkhead hermetic receptacle plug mating chart

Model	Plug for end A	Plug for end B
Y27-2255ZJB2H	Y27 III -2255TK1L	Y27-2255TK1LW

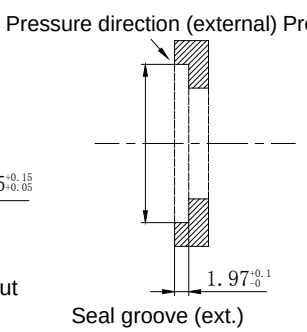
Note: Y27-2255TK1LW hole numbering is opposite to the chart.

Y27F square flange hermetic receptacle (Mounting: B)

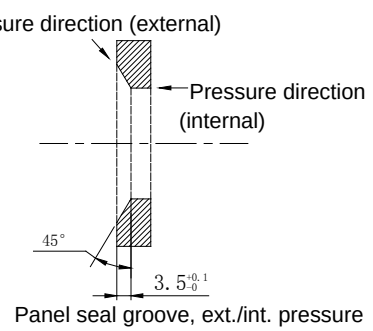
- Y27F-1610ZJBH square flange hermetic receptacle has O-ring for good panel sealing; pin contacts; solder end takes no rear accessory.



Recommended panel cutout



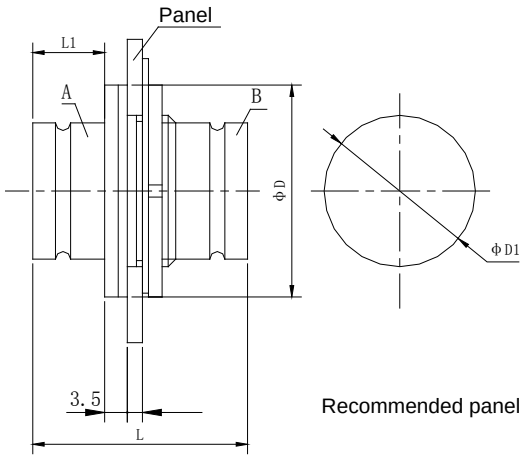
Seal groove (ext.)



Panel seal groove, ext./int. pressure

Bulkhead rubber-sealed receptacle (Mounting: B4)

Bulkhead rubber-sealed receptacle: rubber gasket, round nut clamps panel; anti-rotation washer prevents loosening. End A takes socket-contact plug, end B pin-contact plug.

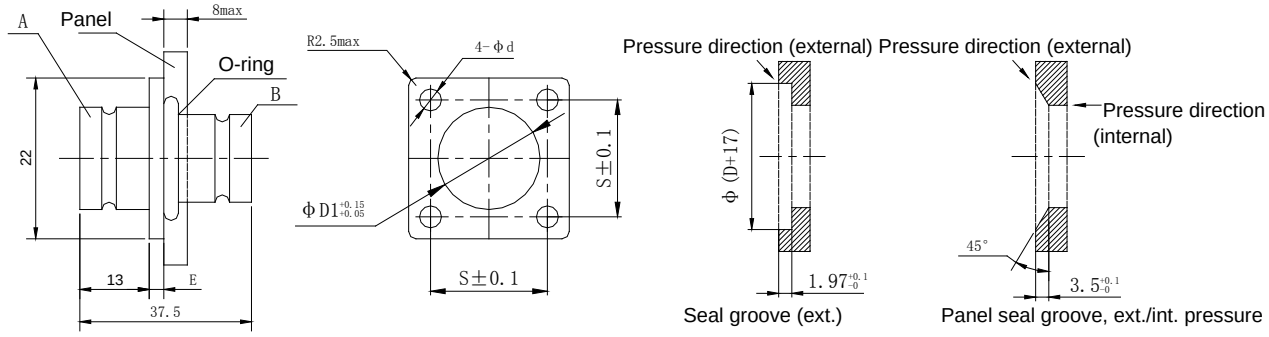


Recommended panel cutout

Model	Contacts	L	L2	D	D1	Thick. B	Mass g
Y27A-0804ZB4M	End A: pins End B: sockets	45	16	22	14.5	1.5~5	--
Y27A-1007ZB4M				24	16.5		--
Y27B-1203ZB4M				26	18.5		--
Y27A-1410ZB4M Y27A-1414ZB4M				28	20.5		38
Y27A-1619ZB4M Y27B-1607ZB4M				32	22.5		53
Y27A-2030ZB4M Y27A-2024ZB4M Y27B-2004ZB4M Y27A-2012ZB4M				37	27.5		75
Y27A-2237ZB4M Y27B-2214ZB4M Y27B Ⅱ-2234ZB4M				40	30.5		89
Y27A-2455ZB4M Y27B-2404ZB4M Y27B-2412ZB4M Y27B-2419ZB4M Y27B Ⅱ-2419ZB4M				43	33.5		78
Y27A-2661ZB4M Y27B-2624ZB4M Y27B Ⅱ-2624ZB4M Y27C-2604ZB4M				46	36.5		128
Y27G-1203ZB4M		48	17.5	26	18.5		--

Bulkhead nut-mount hermetic receptacle (Mounting: B4)

- Bulkhead hermetic receptacle: round flange with O-ring; pins both ends; max panel thickness 8mm
- Ends A and B take plugs with key angle codes III and I; plugs mating with end B end with character W in the marking.



Recommended panel cutout

Model	Contacts	D	S	D1	d	E	Mass g
Y27A-1619ZJB4H	19	31.5	25	20.5	3.6	2	53
Y27A-2237ZJB4H	37	37.5	31	28.5	3.6	2.5	85
Y27A-22558ZJB4H	55	37.5	31	28.5	3.6	2.5	89
Y27A-2214ZJB4H	14	37.5	31	28.5	3.6	2.5	98.5

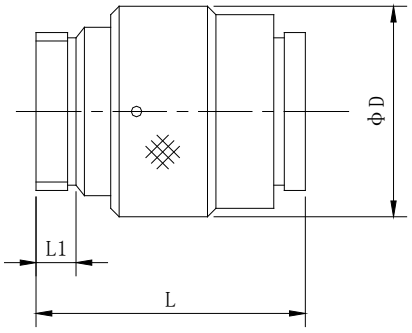
Bulkhead hermetic receptacle plug mating chart:

Model	Plug for end A	Plug for end B
Y27A-1619ZJB4H	Y27A III -1619TK1L	Y27A-1619TK1LW
Y27A-2237ZJB4H	Y27A III -2237TK1L	Y27A-2237TK1LW
Y27-2255ZJB4H	Y27 III -2255TK1L	Y27-2255TK1LW
Y27B-2214ZJB4H	Y27B III -2214TK1L	Y27B-2214TK1LW

Note: hole numbering of plugs ending with W is opposite to the chart

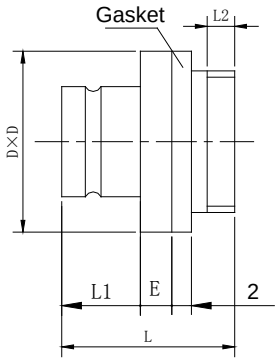
Y27A crimp removable connector

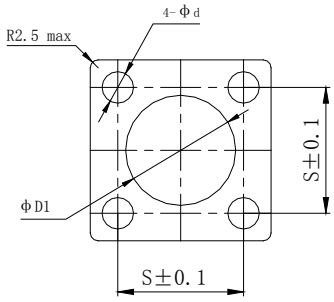
Y27A crimp removable connector uses MIL-C-81511 size 20 removable contacts.



Plug outline dimensions

Model	D	L	L1	Mass g
Y27A-2237TK33L	36.5		31 5	46
Y27A-2455TK3L	39.5		32 6	51





Recommended panel cutout

Receptacle outline dimensions

Shell size	D	S	D1	d	E	L	L1	L2	Mass g
Y27A-2237ZJ3B	35	27	30.5	3.6	1.5	27	16	4.5	26
Y27A-2455ZJ3B	37	29	33.5	3.6	2.2	27	16	4.5	30

Crimp contact wire range and crimp/insertion tool models:

Conductor dia. mm	Conductor mm²	Max insulation O.D. mm	Crimp strength N	Crimp tool	Insert/remove tool
0.64~0.8	0.2	Φ1.6	85	YJQ-W1	Jc6.490.006

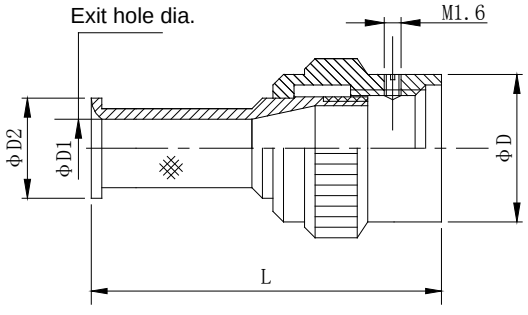
Y27 series accessories

For convenience, Y27 series offers Type II, IIA, I, IIB, III, IV, V, VI, VII, VIII rear accessories and metal caps; refer to the table below when selecting.

Accessory name/model		Compatible series	Immersion	EMI shielding	Compatible cables	Other features
Type II rear accessory		Y27, Y27A, B, C	--	Yes	Soft wire bundles	Gives connector dust, moisture and rain protection
Type IIA rear accessory		Y27, Y27A, B, C	--	Yes	Shielded wire bundles	
Type IIB rear accessory		Y27F, G, H	--	Yes	Shielded wire bundles	
Type III rear accessory		Y27, Y27A, B, C, F, G, H	--	--	Soft wire bundles	
Type IV rear accessory		Y27, Y27A, B, C	--	--	Soft wire bundles	
Type V rear accessory		Y27F, G, H	Yes	Yes	Shielded waterproof cables	
Type VI rear accessory		Y27F, G, H	Yes	Yes	Shielded waterproof cables	
Type VII rear accessory		Y27F, G, H	--	Yes	Shielded cable bundles	
Type VIII rear accessory		Y27F, G, H	--	Yes	Shielded cable bundles	
Cover	Red anodized	Y27, Y27A, B, C	--	--	--	Protects connector against dust, moisture and rain
	Ni-plated, chain	Y27, Y27A, B, C	--	Yes	--	
	Red anodized	Y27F, G, H	--	--	--	
	Ni-plated, chain	Y27F, G, H	--	Yes	--	

Type II rear accessory

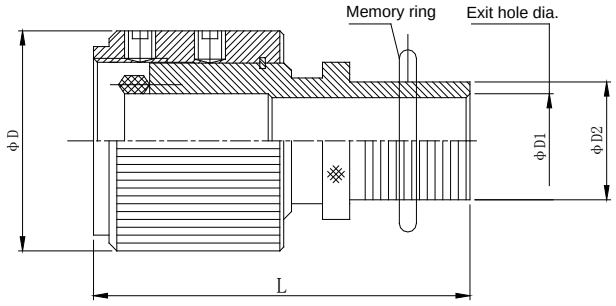
- Type II accessory clamps soft wire bundles and cables with hard jackets or shield braids; heat-shrink sleeve can fit over the accessory.
- Type II accessory has a seal ring at the connector joint.



Model	Shell sizes	D	D1	D2	L
08 II (-B,-C)	08	19	5.5	9.5	36
10 II (-B,-C)	10	21	7.5	11.5	36
12 II (-B,-C)	12	23	9.5	13.5	36
14 II (-B,-C)	14	25	11.5	15.5	36
16 II (-B,-C)	16	27	13.5	17.5	37
20 II (-B,-C)	20	33	18.5	22.5	38
22 II (-B,-C)	22	36	21.5	25.5	39
24 II (-B,-C)	24	39	23.5	27.5	39
26 II (-B,-C)	26	42	26.5	30.5	42

Type IIA rear accessory

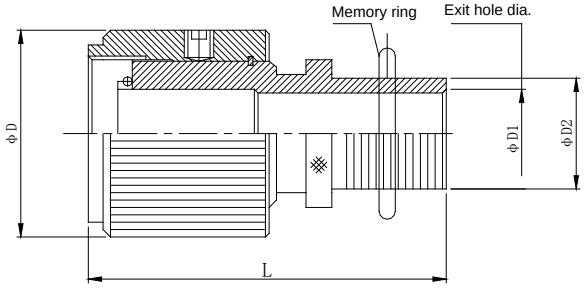
- Type IIA accessory clamps soft wire bundles and cables with hard jackets or shield braids; memory ring compresses the braid; heat-shrink sleeve fits over.
- Type IIA accessory has a seal ring at the connector joint.



Model	Shell sizes	D	D1	D2	L
Y27-08 IIA (-B,-C)	08	20	7.5	9.5	33.5
Y27-10 IIA (-B,-C)	10	22	9	11	33.5
Y27-12 IIA (-B,-C)	12	24	10.7	12.7	33.5
Y27-14 IIA (-B,-C)	14	26	12.3	14.3	33.5
Y27-16 IIA (-B,-C)	16	28	13.9	15.9	35.5
Y27-20 IIA (-B,-C)	20	33	20.2	22.2	37.5
Y27-22 IIA (-B,-C)	22	36	23.4	25.4	37.5
Y27-24 IIA (-B,-C)	24	39	26.5	28.5	38.5
Y27-26 IIA (-B,-C)	26	42	29.8	31.8	41.5

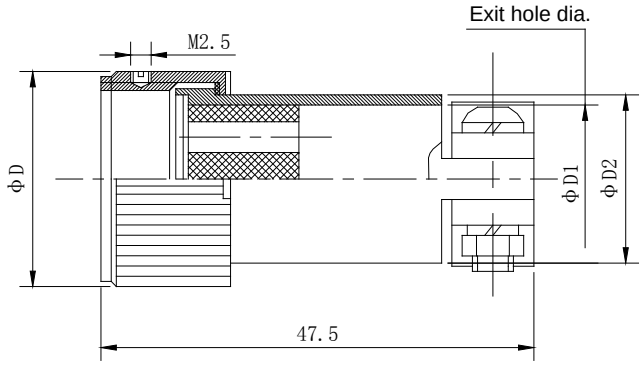
Type IIB rear accessory

- Type IIB accessory clamps soft wire bundles and cables with hard jackets or shield braids; memory ring compresses the braid; heat-shrink sleeve fits over.
- Type IIB accessory has a seal ring at the connector joint.



Model	Shell sizes	D	D1	D2	L
Y27-10 II B	10	22	9	11	31.6
Y27-12 II B	12	24	10.7	12.7	31.6
Y27-14 II B	14	26	12.3	14.3	31.3
Y27-16 II B	16	28	13.9	15.9	33.6
Y27-20 II B	20	30	17	19	33.6
Y27-22 II B	22	33	20.2	22.2	35.6
Y27-24 II B	24	36	23.4	25.4	35.6
Y27-26 II B	26	39	26.5	28.5	36.6
Y27-28 II B	28	42	29.8	31.8	39.6
Y27-30 II B	30	45	33	35	39.6
Y27-32 II B	32	51	39.3	41.3	39.6

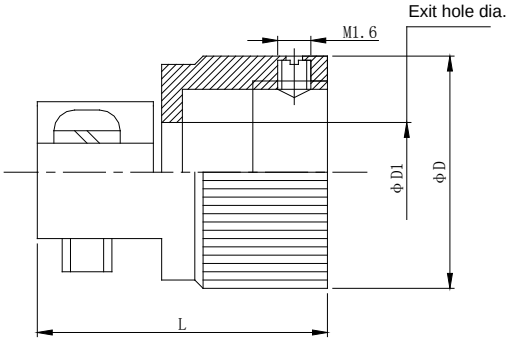
Type IIC rear accessory



Model	D	D1	D2	L
Y27-20 II	29.5	20	23	47.5

Type III rear accessory

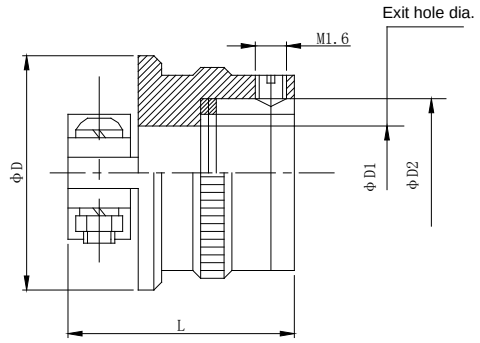
- Type III accessory clamps soft wire bundles
- Type III accessory is moisture-proof only after potting.



Model	Shell sizes	D	D1	L
08III	08	17	6	19
10III	10	19	8	19
12III	12	20	8	19
14III	14	22	10	20
16III	16	24	12	22
18III	18	26	12	22
20III	20	29	16	24
22III	22	32	18	25
24III	24	37	24	26
26III	26	39	26	29
28III	28	41	26	29
30III	30	44	30	35
32III	32	47	36	38

Type IV rear accessory

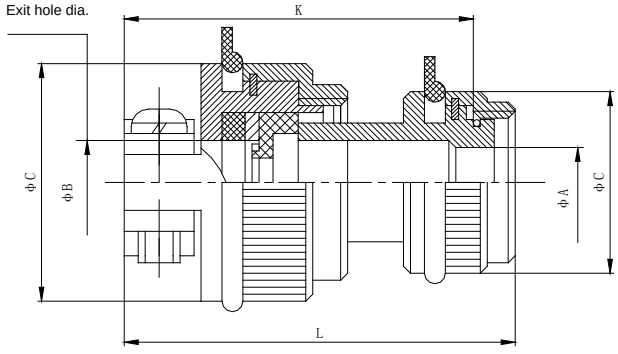
- Type IV accessory clamps soft wire bundles and cables with hard jackets or shield braids (especially the extended Type IV).
- Type IV accessory has a seal ring at the joint; moisture-proof after potting.



Model	Shell sizes	D	D1	D2	L
Y27-16 Ⅳ	16	35	22	15.8	32
Y27-20 Ⅳ	20	37	24	20.8	32
Y27-26 Ⅳ	26	46	28	29	40
Y27-26 Ⅳ L	26	46	28	29	53
Y27-30 Ⅳ	30	54	36	35	56
Y27-30 Ⅳ L	30	54	36	35	85

Type V rear accessory

- Type V accessory has seal ring and braid clamp ring for shielded waterproof cables; sealed and EMI shielded.

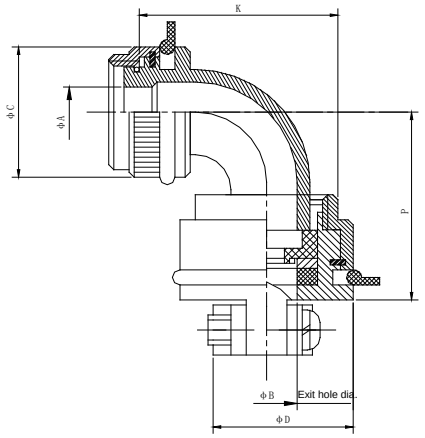


Type V rear accessory

Model	A	B	C	D	K	L	Tmin	Tma×
Y27-10VA	9.	11	23	27	54	59	6.0	11.0
Y27-10VD	9.6	13	23	29	54	59	6.0	13.0
Y27-12VA	11.6	11	25	27	46	51	6.0	11.0
Y27-12VB	11.6	13	25	29	54	59	8.0	13.0
Y27-12VC	11.6	15	25	31	54	59	10.0	15.0
Y27-12VD	11.6	18	28	34	54	59	12.0	18.0
Y27-14VA	13.6	11	26	27	47	52	6.0	11.0
Y27-14VD	13.6	13	26	29	47	52	8.0	13.0
Y27-14VD	13.6	15	26	31	57	62	10.0	15.0
Y27-16V	15.6	11	28	27	47	52	6.0	11.0
Y27-16VA	15.6	15	28	31	49	54	10.0	15.0
Y27-16VB	15.6	18	28	34	60	65	12.0	18.0
Y27-18VA	17.6	15	31	31	49	54	10.0	15.0
Y27-18VB	17.6	18	31	34	60	65	10.0	18.0
Y27-18VD	17.6	21	31	37	65	70	12.0	21.0
Y27-18VF	17.6	24	34	40	65	70	14.0	24.0
Y27-20VA	20.6	18	34	34	51	56	12.0	18.0
Y27-20VB	20.6	21	34	37	68	73	14.0	21.0
Y27-20VC	20.6	24	34	40	68	73	16.0	24.0
Y27-20VD	20.6	27	37	43	68	73	18.0	27.0
Y27-22VA	23.6	21	37	37	57	62	14.0	21.0
Y27-22VB	23.6	24	37	40	71	76	16.0	24.0
Y27-22VC	23.6	27	37	43	71	76	18.0	27.0
Y27-22VD	23.6	33	43	51	76	81	22.0	33.0
Y27-24VA	25.6	21	40	37	57	63	14.0	21.0
Y27-24VB	25.6	24	40	40	57	63	16.0	24.0
Y27-24VC	25.6	27	40	43	71	77	18.0	27.0
Y27-24VD	25.6	30	40	48	71	77	20.0	30.0
Y27-24VE	25.6	36	46	54	76	82	24.0	36.0
Y27-26VA	28.6	24	42	40	59	65	16.0	24.0
Y27-26VB	28.6	27	42	43	59	65	18.0	27.0
Y27-26VC	28.6	30	42	48	74	80	20.0	30.0
Y27-28VA	31.6	27	46	43	59	65	18.0	27.0
Y27-28VB	31.6	30	46	48	59	65	20.0	30.0
Y27-28VC	31.6	33	46	51	81	87	22.0	33.0
Y27-28VD	31.6	39	49	57	81	87	28.0	39.0
Y27-28VE	31.6	46	56	65	81	87	28.0	46.0
Y27-32VA	37.6	46	58	65	81	87	28.0	46.0

Type VI rear accessory

- Type VI accessory: 90deg bent exit.
- Like Type V, it has seal ring and braid clamp ring for shielded waterproof cables.
- Sealed and EMI shielded.

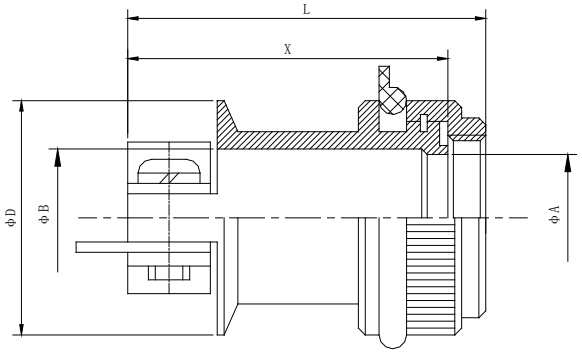


Model	A	B	C	D	K	Tmin	Tma×	P
Y27-18 VI D	17.6	21	31	37	46.5	12.0	21.0	67.5
Y27-18 VI F	17.6	24	34	40	49.5	14.0	24.0	69
Y27-20 VI B	20.6	21	34	37	46.5	14.0	21.0	68.5
Y27-20 VI C	20.6	24	34	40	49.5	16.0	24.0	70
Y27-20 VI D	20.6	27	37	43	52.5	18.0	27.0	71.5
Y27-22 VI A	23.6	21	37	37	48	14.0	21.0	73.5
Y27-22 VI B	23.6	24	37	40	49.5	16.0	24.0	75
Y27-22 VI C	23.6	27	37	43	52.5	18.0	27.0	76.5
Y27-22 VI D	23.6	33	43	51	59.5	22.0	23.0	84.5
Y27-24 VI A	25.6	21	40	37	49	14.0	21.0	73.5
Y27-24 VI B	25.6	24	40	40	50.5	16.0	24.0	75
Y27-24 VI C	25.6	27	40	43	52.5	18.0	27.0	76.5
Y27-24 VI D	25.6	30	40	48	56.5	20.0	30.0	78
Y27-24 VI E	25.6	36	46	54	62.5	24.0	36.0	86
Y27-26 VI A	28.6	24	42	40	52	16.0	24.0	76
Y27-26 VI B	28.6	27	42	43	53.5	18	27	77.5
Y27-26 VI C	28.6	30	42	48	56.5	20	30	79
Y27-28 VI A	31.6	27	46	43	55	18	27	77.5
Y27-28 VI B	31.6	30	46	48	57.5	20	30	79
Y27-28 VI C	31.6	33	46	51	59.5	22	33	85.5
Y27-28 VI D	31.6	39	49	57	65.5	28	39	88.5
Y27-28 VI E	31.6	46	56	65	73	28	46	91.5
Y27-32 VI A	37.6	46	58	65	73	28	46	91.5

Note: T = cable jacket O.D. allowed at the accessory seal ring.

Type VII accessory outline

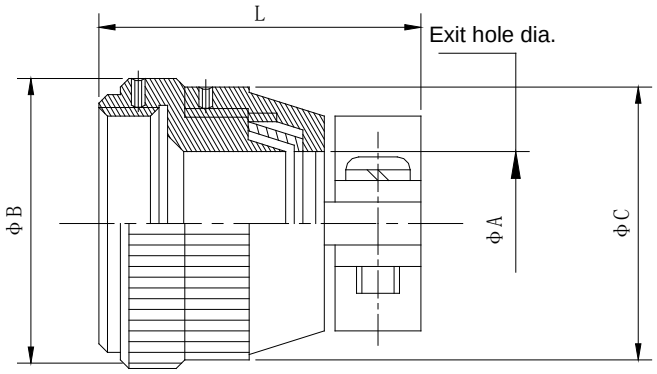
Type VII accessory clamps shielded cables; EMI shielded.



Model	A	B	D	X	L
Y27-10 Ⅶ A	12	12	27	30	35
Y27-12 Ⅶ A	12	12	27	30	35
Y27-12 Ⅶ B	15	16	31	40	45
Y27-14 Ⅶ A	14	14	29	35	40
Y27-16 Ⅶ A	16	16	31	35	40
Y27-18 Ⅶ A	19	19	34	35	40
Y27-18 Ⅶ B	21	22	37	50	55
Y27-20 Ⅶ A	22	22	37	45	50
Y27-20 Ⅶ B	24	25	40	55	60
Y27-22 Ⅶ A	25	25	40	45	50
Y27-22 Ⅶ B	27	28	43	55	60
Y27-24 Ⅶ A	25	25	40	45	51
Y27-24 Ⅶ B	29	31	48	60	66
Y27-26 Ⅶ A	28	28	48	50	56
Y27-28 Ⅶ A	31	31		55	61
Y27-28 Ⅶ B	35	40	57	65	71
Y27-32 Ⅶ A	41	46	64	65	71

Type VIII rear accessory

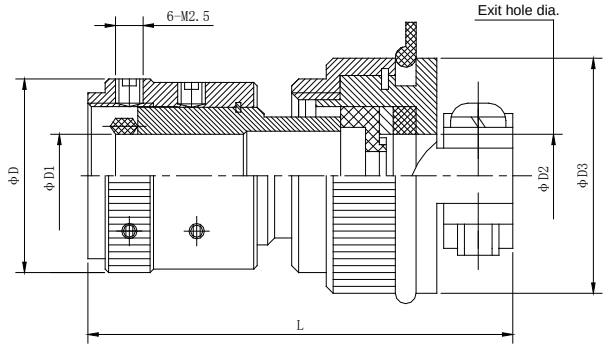
Type VIII accessory clamps shielded cables; EMI shielded.



Model	Shell sizes	A	B	C	L
Y27-10 Ⅷ	10	7	22	22	36
Y27-12 Ⅷ	12	16	24	30	38
Y27-16 Ⅷ	16	11	28	26	40
Y27-18 Ⅷ	18	9	30	24	40
Y27-24 Ⅷ	24	11	39	26	42
Y27-26 Ⅷ	26	14	42	28	42

Type IX accessory outline

Type IX accessory clamps shielded cables; EMI shielded.

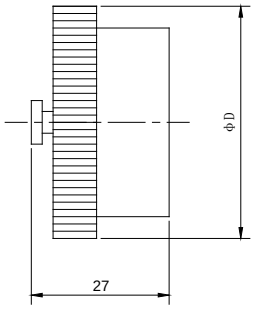


Model	D	D1	D2	D3	L
12 Ⅸ B-C	24	11.6	13.8	29	61
14 Ⅸ B-C	26	13.6	13.8	29	54
16 Ⅸ B-C	28	15.6	18.8	34	67
20 Ⅸ B-C	33	20.6	21.8	37	75
22 Ⅸ B-C	36	23.6	24.8	40	78
24 Ⅸ B-C	39	25.7	24.8	40	65
26 Ⅸ A-C	42	28.7	24.8	40	67
26 Ⅸ B-C	42	28.7	27.8	43	67

Y27 series metal protective caps

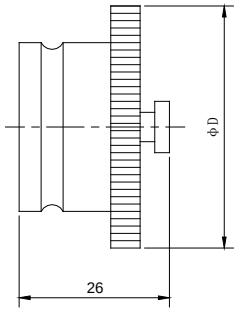
Caps protect contacts when unmated; also dust, moisture and rain proof.

Receptacle cap



For Y27, Y27A, B, C		For Y27F, G, H		D	Chain length
Red anodized	Ni-plated, with chain	Red anodized	Ni-plated, with chain		
JS27A-08ZH	JS27A-08ZNL	—	F	20.5	100
JS27A-10ZH	JS27A-10ZNL	JS27F-10ZH		22.5	
JS27A-12ZH	JS27A-12ZNL	JS27F-12ZH		24.5	
JS27A-14ZH	JS27A-14ZNL	JS27F-14ZH		27	
JS27A-16ZH	JS27A-16ZNL	JS27F-16ZH		29	150
JS27A-18ZH	JS27A-18ZNL	JS27F-18ZH		31	
JS27A-20ZH	JS27A-20ZNL	JS27F-20ZH		34	
JS27A-22ZH	JS27A-22ZNL	JS27F-22ZH		37	
JS27A-24ZH	JS27A-24ZNL	JS27F-24ZH		39.5	
JS27A-28ZH	JS27A-26ZNL	JS27F-26ZH		42.5	
—	—	JS27F-28ZH		45.5	
JS27A-30ZH	JS27A-30ZNL	—		48	
—	—	JS27F-32ZH		51	

Plug cap



For Y27, Y27A, B, C		For Y27F, G, H		D	Chain length
Red anodized	Ni-plated, with chain	Red anodized	Ni-plated, with chain		
JS27A-08TH	JS27A-08TNL	—	—	20	100
JS27A-10TH	JS27A-10TNL	JS27A-10TH	JS27A-10TNL	22	
JS27A-12TH	JS27A-12TNL	JS27A-12TH	JS27A-12TNL	24	
JS27A-14TH	JS27A-14TNL	JS27A-14TH	JS27A-14TNL	26.5	
JS27A-16TH	JS27A-16TNL	JS27A-16TH	JS27A-16TNL	28.5	150
JS27A-18TH	JS27A-18TNL	JS27A-18TH	JS27A-18TNL	30.5	
JS27A-20TH	JS27A-20TNL	JS27A-20TH	JS27A-20TNL	33.5	
JS27A-22TH	JS27A-22TNL	JS27A-22TH	JS27A-22TNL	36.5	
JS27A-24TH	JS27A-24TNL	JS27A-24TH	JS27A-24TNL	39	
JS27A-26TH	JS27A-26TNL	JS27A-26TH	JS27A-26TNL	42	
—	—	JS27A-28TH	JS27A-28TNL	45	
JS27A-30TH	JS27A-30TNL	—	—	52	
—	—	JS27A-32TH	JS27A-TNL	50	