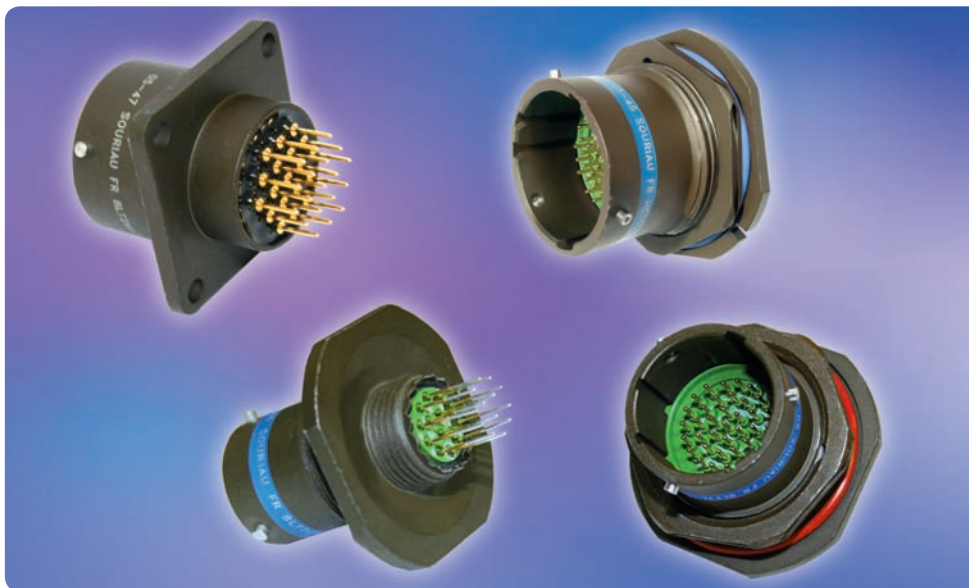


8LT Connectors



Description

- High contact density
- Bayonet coupling
- Contact protection : 100% Scoop proof
- Shell size from 9 to 25
- Accessories available (protective caps, backshells, etc...)
- RFI - EMI shielding and shell to shell continuity
- Hermetic
- Alluminium alloy, protection by cadmium, nickel, green zinc cobalt or black zinc nickel plating

Applications

- Civil and Military Aerospace
- Marine Equipments
- Communications Equipements
- Medical Instrumentation
- Ballistic Missiles & Weapon Systems
- Armored Carriers & Tanks
- Test Equipments

Technical features

Mechanical

- Shell: aluminum alloy
- Plating:
 - . olive green cadmium (B)
 - . nickel (F)
 - . green zinc cobalt (Z)
 - . black zinc nickel (L)
- Insulator: thermoplastic or metallic version available for specification 284 & 384
- Grommet or seal: liquid silicone rubber or fluorocarbone elastomer for specification 022
- Contact: copper alloy
- Plating contact: gold over nickel
- Endurance: 500 mating / unmating operations

- Chock: 300 g during 3 ms and as per MIL S 901 grade A
- Vibration:
 - . Sine 10 to 2000 Hz - 30 g
 - . Random 100 à 300 Hz - 5 g²/Hz
- Contact retention (min force in N):
 - . Size 22D: 44 N
 - . Size 20: 67 N
 - . Size 16: 111 N
 - . Size 12: 111 N
 - . Size 8: 111 N
 - . Size 4: 200 N

Electrical

- Test voltage (Vrms)

Service	sea level	at 21 000 m
M	1 300	800
N	1 000	600
I	1 800	1 000
II	2 300	1 000

- Insulation resistance: $\geq 5\,000\text{ MW}$ (at 500 Vcc)
- Contact resistance:
 - resistance of wire included in measurement
 - . size 22D: 14.6 m Ω
 - . size 20: 7.3 m Ω
 - . size 16: 3.8 m Ω
 - . size 12: 3.5 m Ω
 - . size 8: 3 m Ω
 - . size 4: 2 m Ω
- Contact rating:
 - . size 22D: 5 A
 - . size 20: 7.5 A
 - . size 16: 13 A
 - . size 12: 23 A
 - . size 8: 45 A
 - . size 4: 80 A
- Shell continuity:
 - . olive green plating: 2.5 m Ω
 - . nickel plating: 1 m Ω
 - . green zinc cobalt: 2.5 m Ω
 - . black zinc nickel: 2.5 m Ω

- Shielding: 90 db at 100 MHz, 50 db at 10 000 MHz
- Electrical continuity between contact and shell for specification 284 & 384: 10 m Ω max

Climatic

- Temperature range:
 - . olive green cadmium plating (B)
 - 65°C +175°C
 - . nickel plating (F)
 - 65°C +200°C
 - . green zinc cobalt plating (Z)
 - 65°C +200°C
 - . black zinc nickel plating (L)
 - 65°C +200°C
- Sealing: mated connectors
 - Differential pressure 2 bars:
 - leakage $\leq 16\text{ cm}^3/\text{h}$
- Salt spray as per:
 - . MIL STD 1344 method 1001 :
 - 500 hours (versions B, L and Z)
 - 48 hours (version F)
 - . NFC 93422 :
 - 48 hours (version F)
- Resistance to fluids
 - . As per MIL DTL 38999, hydraulic fluids, solvents
 - . Specification 022 for fuel immersion (please consult us)

8LT Connectors



Cross reference list :

Part Numbers Souriau and Specifications : NFC 93422 / MIL DTL 38999

Connectors

SOURIAU	NFC 93422 HE 308	MIL DTL 38999 Serie I	Designation
8LT1●●B●●P/SN 8LT1●●F●●P/SN	- -	- -	Cable connecting receptacle
8LT0●●B●●P/SN 8LT0●●F●●P/SN	HE30800T●●●●●P/SN7 M HE30800T●●●●●P/SN6 M	MS27466T●●B●●P/S●* MS27466T●●F●●P/S●*	Square flange receptacle
8LT2●●B●●P/SN 8LT2●●F●●P/SN	- -	MS27505E●●B●●P/S●* MS27505E●●F●●P/S●*	Square flange receptacle not accepting backshell
8LT3●●B●●P/SN 8LT3●●F●●P/SN	- -	MS27656T●●B●●P/S●* MS27656T●●F●●P/S●*	Square flange receptacle (rear mounting)
8LT5●●B●●P/SN 8LT5●●F●●P/SN	HE30806T●●●●●P/SN7 M HE30806T●●●●●P/SN6 M	MS27467T●●B●●P/S●* MS27467T●●F●●P/S●*	Plug with RFI shielding
8LT15●●B●●P/SN 8LT15●●F●●P/SN	- -	MS27467E●●B●●P/S●* MS27467E●●F●●P/S●*	Plug with RFI shielding not accepting backshell
8LT7●●B●●P/SN 8LT7●●F●●P/SN	HE30807T●●●●●P/SN7 M HE30807T●●●●●P/SN6 M	MS27468T●●B●●P/S●* MS27468T●●F●●P/S●*	Jam nut receptacle
8LT7S●●B●●P/SN (#22D) 8LT7S●●F●●P/SN (#22D)	HE30811T●●●●●P/SN7 M HE30811T●●●●●P/SN6 M	- -	Jam nut receptacle with straight spill contacts
8LT7C●●B●●P/SN (#20, #16, #12) 8LT7C●●F●●P/SN (#20, #16, #12)	HE30811T●●●●●P/SN7 M HE30811T●●●●●P/SN6 M	- -	Jam nut receptacle with straight spill contacts
8LT26●●B●●P/SN 8LT26●●F●●P/SN	HE30826T●●●●●P/SN7 M -	- -	Floating plug for rack HE308
8LT27●●B●●P/SN 8LT27●●F●●P/SN	HE30827T●●●●●P/SN7 M -	- -	Receptacle for rack HE308 with possibility to mount rear accessories
8LT27S●●B●●P/SN (#22D) 8LT27C●●B●●P/SN (#20, #16, #12)	HE30821T●●●●●P/SN7 M HE30821T●●●●●P/SN7 M	- -	Receptacle for rack HE308 with straight spill contacts
8LT23●●B●●P/SN	-	-	Square flange receptacle

* Standard P/S : . None = N position,
 . Use A,B,C,D for other orientations

Backshells

SOURIAU	NFC 93422 HE 308	MIL DTL 38999 Serie I	Designation
8LST●●●B01 8LST●●●F01	- -	M8504927●●W M8504927●●N	Backnut
8LST●●●B02 8LST●●●F02 8LST●●●G02	- HE308-11●●26 HE308-11●●27	- - -	Straight cable clamp
8LST●●●B03 8LST●●●F03 8LST●●●G03	- HE308-12●●26 HE308-12●●27	- - -	Elbow cable clamp
8LST●●●B071 8LST●●●F071	HE308-13●●17 HE308-13●●16	- -	Backshell for screen termination and heatshrink sleeving

8LT Connectors



Caps

SOURIAU	NFC 93422 / HE 308	MIL DTL 38999 Serie I	Designation
8LTE04B●● 8LTE04F●●	HE308-B00●●7 HE308-B00●●6	- -	Cap for square flange receptacle
8LTE06B●● 8LTE06F●●	HE308-B07●●7 HE308-B07●●6	- -	Cap for jam nut receptacle
8LTF05B●● 8LTF05F●●	HE308-B16●●7 HE308-B16●●6	- -	Cap for plug
8LTF07B●● 8LTF07F●●	HE308-B06●●7 HE308-B06●●6	- -	Cap for plug
8LTE01B●● 8LTE01F●●	- -	MS27502B●●C MS27502F●●C	Cap for receptacle
8LTE02B●● 8LTE02F●●	- -	MS27502B●●N MS27502F●●N	Cap for receptacle
8LTF01B●● 8LTF01F●●	- -	MS27501B●●C MS27501F●●C	Cap for plug

Contacts

See pages 32 to 36

Filler plug

Contact size	Part Number		Colour
	SOURIAU	MIL DTL 38999 serie I	
#22D	8660-212	MS27488-22	Black
#20	8522-389A	MS27488-20	Red
#16	8522-390A	MS27488-16	Blue
#12	8522-391A	MS27488-12	Yellow

Insertion and extraction tools

Contact size	Part Number		Colour	
	SOURIAU	MIL DTL 38999 Serie I	Insertion	Extraction
#22D	8599-0022	M81969/14-01	Green	White
#20	8522-20	M81969/14-10	Red	Orange
#16	8522-16	M81969/14-03	Blue	White
#12	8522-12	M81969/14-04	Yellow	White

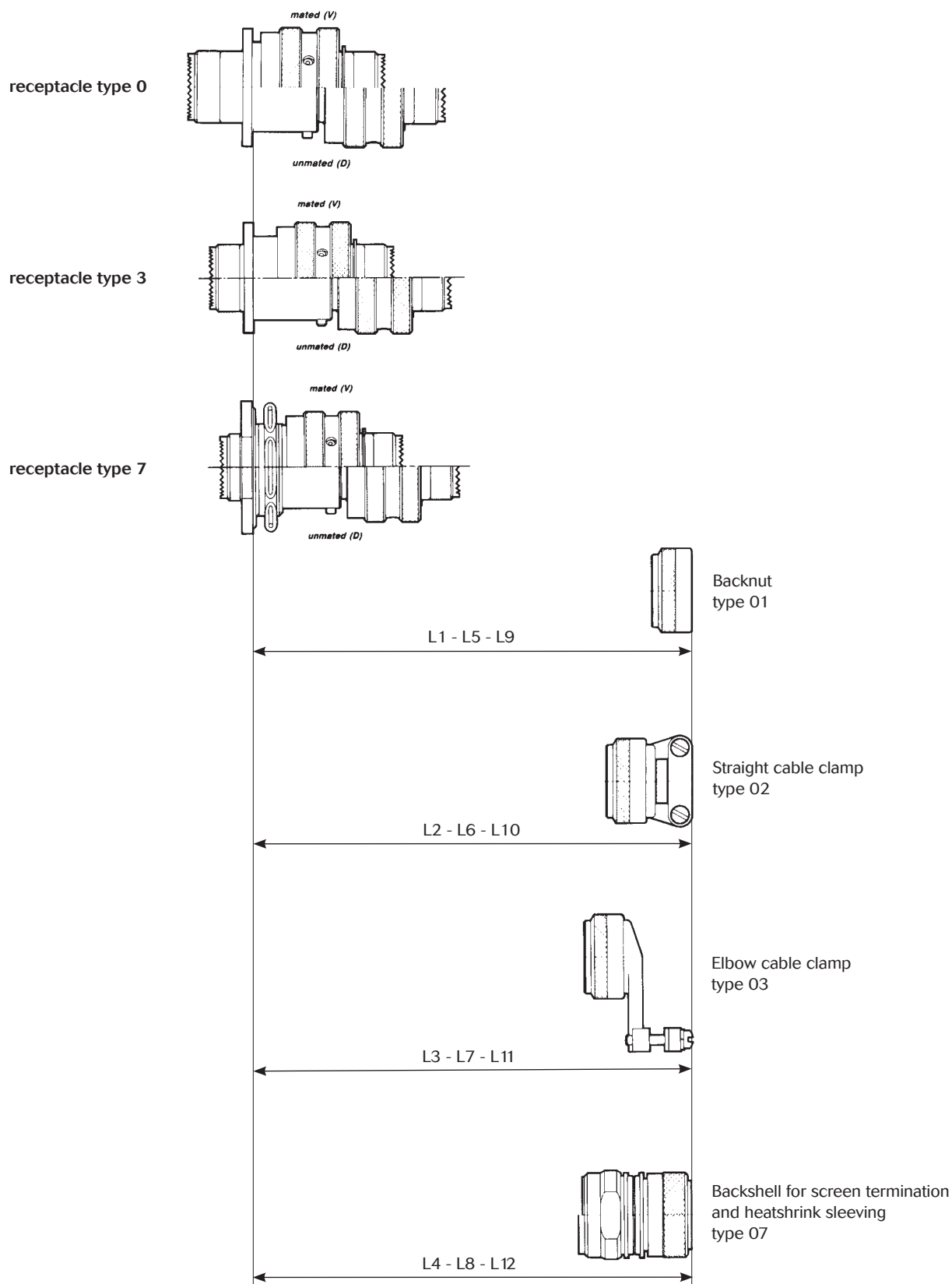
For other contact size see page 41

8LT Connectors



Mated connectors with backshells

Mated plug : Dimension from panel to backshell



8LT Connectors



Square flange receptacle type 0 Cable connecting receptacle type 1								
Shell size	L1 Max		L2 Max		L3 Max		L4 Max	
	V	D	V	D	V	D	V	D
09	40.20	55.20	50.75	65.75	64.20	79.20	55.75	70.75
11	40.20	55.20	51.75	66.55	64.20	79.20	55.75	70.75
13	40.20	55.20	53.05	68.05	66.20	81.20	55.75	70.75
15	40.20	55.20	59.45	74.45	70.56	85.56	57.75	72.75
17	40.20	55.20	62.95	77.95	74.93	89.93	57.75	72.75
19	40.20	55.20	62.95	77.95	75.34	90.34	58.75	73.75
21	40.20	55.20	62.95	77.95	77.32	92.32	62.55	77.55
23	40.20	55.20	62.95	77.95	80.87	95.87	62.55	77.55
25	40.20	55.20	62.95	77.95	83.67	98.67	62.55	77.55

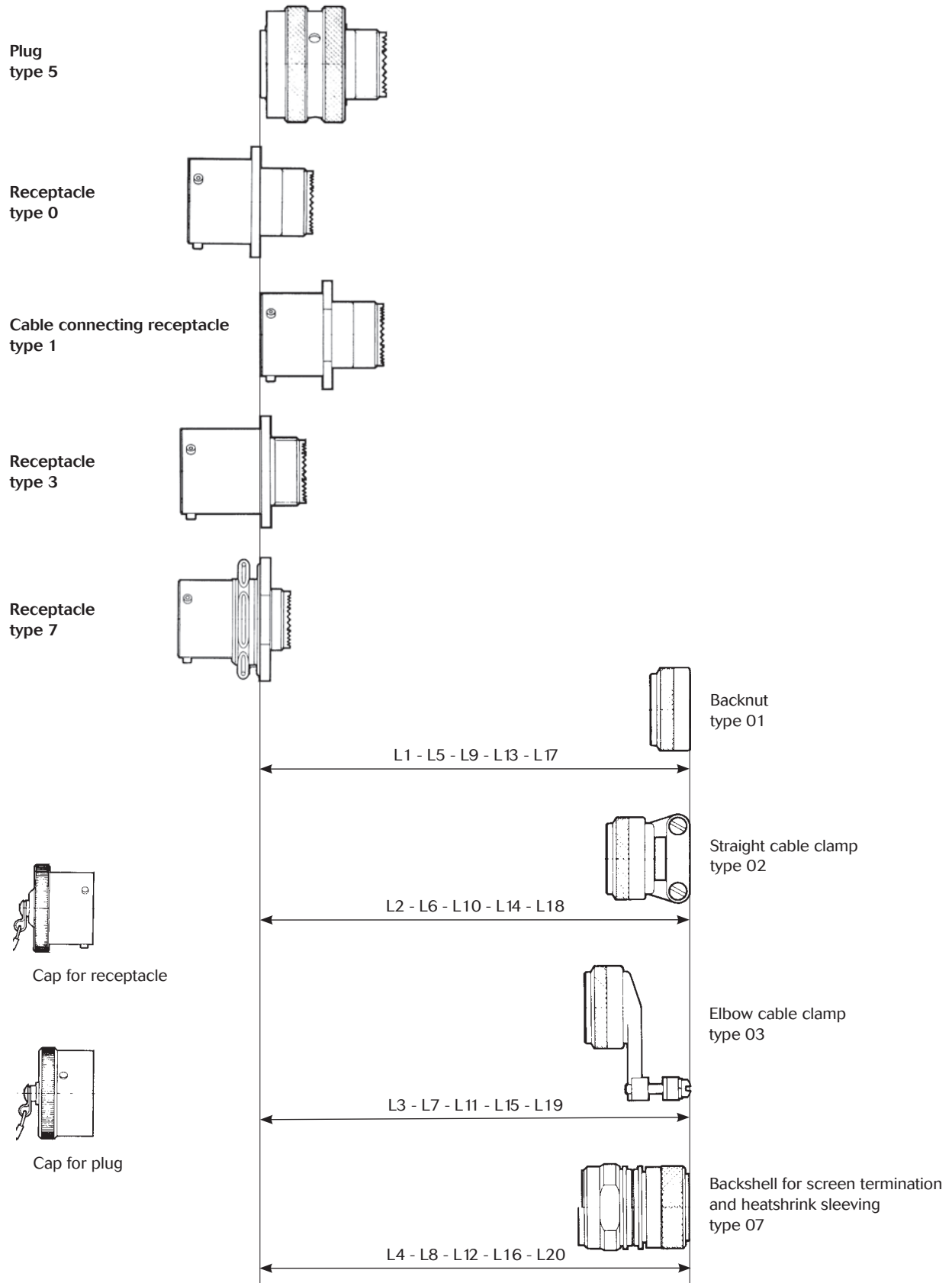
Square flange receptacle type 3								
Shell size	L5 Max		L6 Max		L7 Max		L8 Max	
	V	D	V	D	V	D	V	D
09	42.50	57.50	53.05	68.05	66.50	81.50	58.05	72.05
11	42.50	57.50	54.05	68.05	66.50	81.50	58.05	72.05
13	42.50	57.50	55.80	7.35	65.50	83.50	58.05	72.05
15	42.50	57.50	61.75	76.75	78.86	87.86	60.05	75.05
17	42.50	57.50	65.25	80.25	77.23	92.23	60.05	75.05
19	42.50	57.50	65.25	80.25	77.64	92.64	61.05	76.05
21	41.75	56.75	64.50	79.50	78.87	93.87	64.10	79.10
23	41.75	56.75	64.50	79.50	82.42	97.42	64.10	79.10
25	41.75	56.75	64.50	79.50	85.22	100.22	64.10	79.10

Jam nut receptacle type 7								
Shell size	L9 Max		L10 Max		L11 Max		L12 Max	
	V	D	V	D	V	D	V	D
09	45.02	60.02	55.58	70.58	69.04	84.04	60.58	75.58
11	45.02	60.02	56.38	71.38	69.04	84.04	60.58	75.58
13	45.02	60.02	57.88	72.88	71.02	84.04	60.58	75.58
15	45.02	60.02	64.28	79.28	75.39	86.02	62.58	77.58
17	45.02	60.02	67.78	82.78	79.76	90.39	62.58	77.58
19	45.02	60.02	67.78	82.78	80.17	94.76	63.58	78.58
21	45.02	60.02	67.78	82.78	82.15	95.17	67.38	82.38
23	45.02	60.02	67.78	82.78	85.70	100.70	67.38	82.38
25	45.02	60.02	67.78	82.78	88.50	103.50	67.38	82.38

8LT Connectors



Plug or receptacle backshell assembly overall length



8LT Connectors



Plug type 5				
Shell size	L1 Max	L2 Max	L3 Max	L4 Max
09	36.66	47.22	60.68	52.22
11	36.66	48.02	60.68	52.22
13	36.66	49.52	62.66	52.22
15	36.66	55.92	67.03	54.22
17	36.66	59.42	71.40	54.22
19	36.66	59.42	71.81	55.22
21	36.66	59.42	73.79	59.02
23	36.66	59.42	77.34	59.02
25	36.66	59.42	80.14	59.02

Receptacle type 0				
Shell size	L5 Max	L6 Max	L7 Max	L8 Max
09	18.83	29.39	42.85	34.39
11	18.83	30.19	42.85	34.39
13	18.83	31.69	44.83	34.39
15	18.83	38.09	51.00	36.39
17	18.83	41.59	53.57	36.39
19	18.83	41.59	53.98	37.39
21	18.83	41.59	55.98	41.19
23	18.83	41.59	59.51	41.19
25	18.83	41.59	62.31	41.19

Cable connecting receptacle type 1				
Shell size	L9 Max	L10 Max	L11 Max	L12 Max
09	37.36	47.98	61.38	52.92
11	37.36	48.72	61.38	52.92
13	37.36	50.22	63.36	52.92
15	37.36	56.62	69.53	54.92
17	37.36	60.12	72.10	54.92
19	37.36	60.12	72.51	55.92
21	37.36	60.12	74.49	59.72
23	37.36	60.12	78.04	59.72
25	37.36	60.12	80.84	59.72

Receptacle type 3				
Shell size	L13 Max	L14 Max	L15 Max	L16 Max
09	15.85	26.40	39.90	31.40
11	15.85	27.20	39.90	31.40
13	15.85	28.70	41.90	31.40
15	15.85	35.10	48.10	33.40
17	15.85	38.60	50.60	33.40
19	15.85	38.60	51.00	34.40
21	15.85	39.40	53.80	39.00
23	15.85	39.40	57.30	39.00
25	15.85	39.40	60.10	39.00

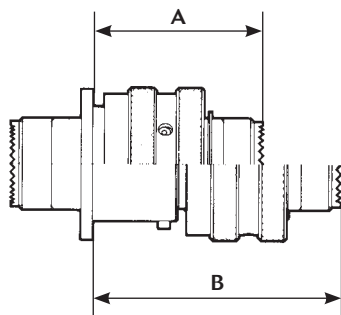
Receptacle type 7				
Shell size	L17 Max	L18 Max	L19 Max	L20 Max
09	13.66	24.22	37.68	29.22
11	13.66	25.22	37.68	29.22
13	13.66	26.52	39.66	29.22
15	13.66	32.92	45.83	31.22
17	13.66	36.42	48.40	31.22
19	13.66	36.42	48.81	32.22
21	13.66	36.42	50.79	36.02
23	13.66	36.42	54.34	36.02
25	13.66	36.42	57.14	36.02

8LT Connectors

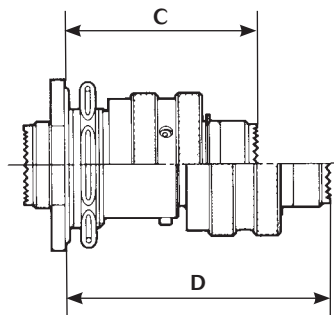


Mated connectors dimensions

Type 0 with plug
(type 5)



Type 7 with plug
(type 5)



Shell Size	A Max	B Max	C Max	D Max
09	33.30	47.40	40.60	54.70
11				
13				
15				
17				
19	32.50	46.70		
21				
23				
25				

8LT Connectors



Souriau connector part numbers

Basic series	8LT	0	-	13	B	35	P	N	***	-	L
Shell type 0: Square flange receptacle 1: Cable connecting receptacle 2: Short square flange receptacle, not accepting backshell 3: Square flange receptacle (rear mounting) 5: Plug with RFI shielding 7: Jam nut receptacle 15: Plug with RFI shielding, not accepting backshell											
Type None: Connector with standard crimp contacts L: Connector with long spill (male and female #22D) C: Connector with short spill (male and female #22D, #20, #16, #12, #8 quadrax) T: Connector with male contact size 20 for wire wrap (2 wraps) W: Connector with male contact size 22D for wire wrap (3 wraps) S: Connector with specific straight spill (male and female #22D only) Q: Connector with quadrax crimp contacts											
Shell size 09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25											
Plating F: Nickel B: Olive green cadmium Z: Green zinc cobalt L: Black zinc nickel											
Contact layout See tables pages 14 to 19											
Contact type P: Male A: Connector supplied less pin contact or with specific contacts (Connector marking : A + orientation) S: Female B: Connector supplied less socket contact or with specific contacts (Connector marking : B + orientation)											
Orientation (1) N, A, B, C, D see table page 37											
Specifications None: Supplied with contact 046: Straight spill contact with tinned plating 251: Connector provided with power contacts with layout contacts #8 022: Fuel tank Please consult us *284: Quadrax grounded (cts 100Ω ⁽²⁾) 308: Quadrax not grounded (cts 100Ω ⁽²⁾) *384: Quadrax grounded (cts 150Ω ⁽²⁾) 408: Quadrax not grounded (cts 150Ω ⁽²⁾)											
Special custom None: Standard plastic cap M: Antistatic plastic cap											
L: For P or S contact type only, connector delivered without contacts, connector marking P or S (without L)											

*Excepted mixed layouts with quadrax and signal contacts. Please consult us.

(1) Orientations B & C not developed for shell size number 9.

(2) Type shell 0, 3 and 5 available only.

8LT Connectors



MIL DTL 38999 part numbers

Basic series	MS	27466	T	13	B	35	P	-	-	L
Shell type 27466: Square flange receptacle (front mounting) 27656: Square flange receptacle (rear mounting) 27468: Jam nut receptacle 27467: Plug with RFI shielding 27505: Square flange receptacle, not accepting backshell										
Class E: Without thread for back fitting, not accepting backshell for MS27505 and MS27467 only T: With thread for backfitting, supplied without backshell (excepted MS27505)										
Shell size 09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25										
Plating F: Nickel B: Olive green cadmium										
Contact layout See tables pages 14 to 19										
Contact type P: Male A: Connector supplied less pin contact or with specific contacts (Connector marking : A + orientation) S: Female B: Connector supplied less socket contact or with specific contacts (Connector marking : B + orientation)										
Orientation (1) None: Normal (N) A, B, C, D see table page 37										
Special custom None: Standard plastic cap M: Antistatic plastic cap										
L: For P or S contact type only, connector delivered without contacts, connector marking P or S (without L)										

(1) Orientations B & C not developed for shell size number 9.

8LT Connectors



HE 308 part numbers

Basic series	HE308	00	T	13	35	P	N	7	M	-	L
Shell type											
00: Square flange receptacle											
07: Jam nut receptacle											
06: Plug with RFI shielding											
11: Jam nut receptacle with straight spill contacts											
Class											
T: Sealed											
Shell size											
09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25											
Contact layout											
See tables pages 14 to 19											
Contact type											
P: Male											
S: Female											
Orientation (1)											
N, A, B, C, D see table page 37											
Plating											
6: Nickel											
7: Olive green cadmium											
Contractual spécification											
Special custom											
None: Standard plastic cap											
M: Antistatic plastic cap											
Specification											
None: Connector supplied with contact											
L: connector supplied without contact											

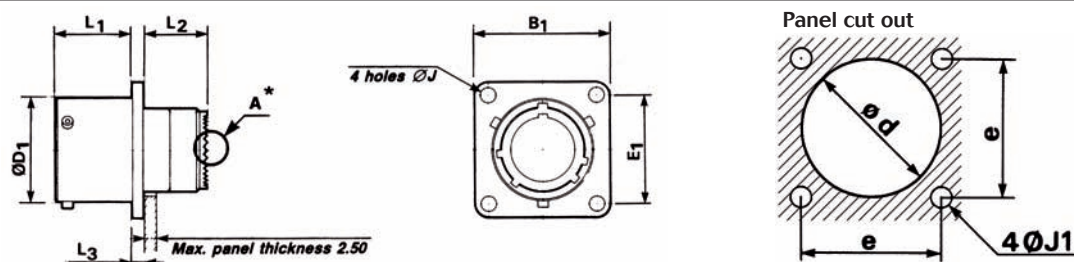
(1) Orientations B & C not developped for shell size number 9.

8LT Connectors



Dimensions

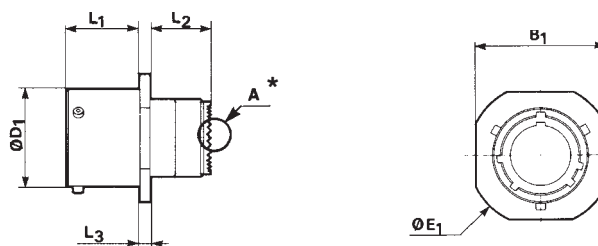
Receptacle type 0



Shell size		09	11	13	15	17	19	21	23	25
B1	Min	23.70	26.05	28.50	30.85	33.20	36.40	39.55	42.75	46.00
	Max	24.30	26.70	29.05	31.45	33.80	37.00	40.15	43.35	46.50
E1		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93	38.10
D1	Min	14.40	17.65	21.40	24.65	27.82	29.24	33.70	36.92	40.06
	Max	14.53	17.78	21.59	24.77	27.94	30.66	33.83	37.00	40.18
J	Min	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.73	3.73
	Max	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.83	3.83
L1	Min	15.93	15.93	15.93	15.93	15.93	15.93	15.17	15.17	15.17
	Max	16.05	16.05	16.05	16.05	16.05	16.05	15.29	15.29	15.29
L2	Min	13.23	13.23	13.23	13.23	13.23	13.23	13.23	13.23	13.23
	Max	13.49	13.49	13.49	13.49	13.49	13.49	13.49	13.49	13.49
L3	Min	2.14	2.14	2.14	2.14	2.14	2.14	2.90	2.90	2.90
	Max	2.54	2.54	2.54	2.54	2.54	2.54	3.30	3.30	3.30
d	Min	15.70	18.70	21.80	25.00	28.30	31.00	34.20	37.30	40.50
J1	± 0.15	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.91	3.91
e		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.92	38.10

* Detail A see page 27

Cable connecting receptacle type 1



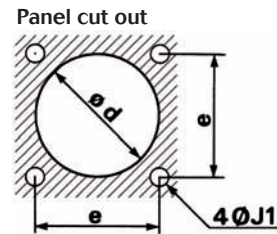
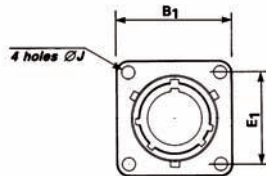
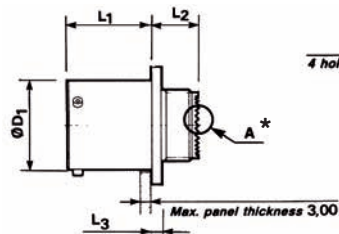
Shell size		09	11	13	15	17	19	21	23	25
B1	Min	18.35	21.65	25.05	27.25	30.78	34.05	37.45	41.45	45.93
	Max	18.92	22.22	25.62	27.82	31.35	34.62	38.02	42.02	46.50
E1	Min	21.80	25.10	28.50	30.70	34.10	37.50	40.90	44.90	49.40
	Max	22.35	25.65	29.05	31.25	34.65	38.05	41.45	45.45	49.95
D1	Min	14.40	17.65	21.40	24.65	27.82	29.24	33.70	36.92	40.06
	Max	14.53	17.78	21.59	24.77	27.94	30.66	33.83	37.00	40.18
L1	Min	15.93	15.93	15.93	15.93	15.93	15.93	15.17	15.17	15.17
	Max	16.05	16.05	16.05	16.05	16.05	16.05	15.29	15.29	15.29
L2	Min	13.23	13.23	13.23	13.23	13.23	13.23	13.23	13.23	13.23
	Max	13.45	13.45	13.45	13.45	13.45	13.45	13.45	13.45	13.45
L3	Min	2.14	2.14	2.14	2.14	2.14	2.14	2.90	2.90	2.90
	Max	2.54	2.54	2.54	2.54	2.54	2.54	3.30	3.30	3.30

* Detail A see page 27

8LT Connectors



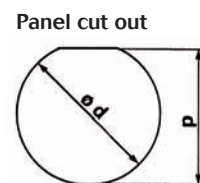
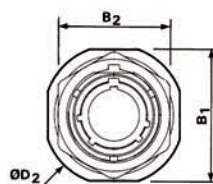
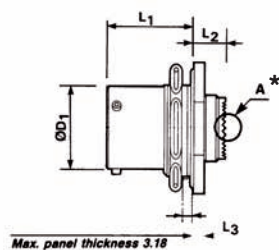
Receptacle type 3



Shell size		09	11	13	15	17	19	21	23	25
B1	Min	23.70	26.05	28.50	30.85	33.20	36.40	39.55	42.75	46.00
	Max	24.30	26.70	29.05	31.45	33.80	37.00	40.15	43.35	46.50
E1		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93	38.10
D1	Min	14.40	17.65	21.40	24.65	27.82	29.24	33.70	36.92	40.06
	Max	14.53	17.78	21.59	24.77	27.94	30.66	33.83	37.00	40.18
J	Min	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.73	3.73
	Max	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.83	3.83
L1	Min	20.71	20.71	20.71	20.71	20.71	20.71	19.96	19.96	19.96
	Max	20.83	20.83	20.83	20.83	20.83	20.83	20.08	20.08	20.08
L2	Min	10.40	10.40	10.40	10.40	10.40	10.40	11.15	11.15	11.15
	Max	11.90	11.90	11.90	11.90	11.90	11.90	12.70	12.70	12.70
L3	Min	2.14	2.14	2.14	2.14	2.14	2.14	2.90	2.90	2.90
	Max	2.54	2.54	2.54	2.54	2.54	2.54	3.30	3.30	3.30
d	Min	16.66	20.22	23.42	26.59	30.96	32.94	36.12	39.29	42.47
J1	± 0.15	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.91	3.91
e		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.92	38.10

* Detail A see page 27

Receptacle type 7 & HE 308 type 11



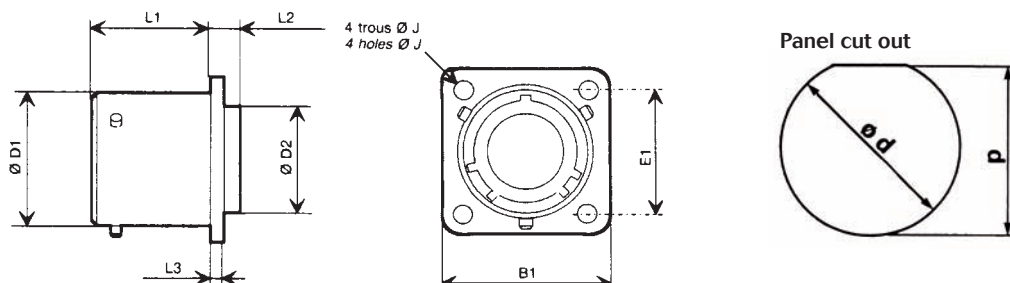
Shell size		09	11	13	15	17	19	21	23	25
B1	Min	26.60	31.40	34.60	37.80	40.90	45.63	48.84	52.02	55.19
	Max	27.35	32.10	35.31	38.49	41.63	46.37	49.58	52.76	55.93
B2	Min	21.95	25.15	29.80	33.05	36.25	39.40	42.60	45.75	50.65
	Max	22.35	25.55	30.30	33.45	36.65	39.80	43.00	46.15	50.95
D1	Min	14.40	17.65	21.40	24.65	27.82	29.24	33.70	36.92	40.06
	Max	14.53	17.78	21.59	24.77	27.94	30.66	33.83	37.00	40.18
D2	Min	29.90	34.60	37.75	41.00	44.11	48.90	52.00	55.30	58.40
	Max	30.58	35.30	38.50	41.65	44.85	49.60	52.75	55.94	59.10
L1	Min	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12	23.12
	Max	23.36	23.36	23.36	23.36	23.36	23.36	23.36	23.36	23.36
L2	Min	8.18	8.18	8.18	8.18	8.18	8.18	8.18	8.18	8.18
	Max	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32	8.32
L3	Min	2.60	2.60	2.60	2.60	2.60	3.35	3.35	3.35	3.35
	Max	3.00	3.00	3.00	3.00	3.00	3.79	3.79	3.79	3.79
d	0/-0.25	17.78	20.96	25.65	28.83	32.00	35.18	38.35	41.53	44.70
p	0/-0.25	17.02	18.58	24.26	27.56	30.73	33.91	37.08	40.26	43.45

* Detail A see page 27

8LT Connectors

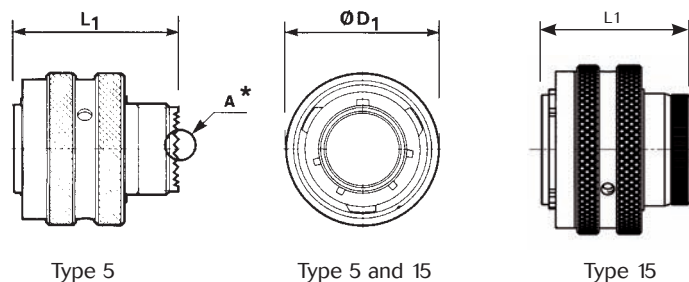


Square flange receptacle type 2



Shell size		09	11	13	15	17	19	21	23	25
B1	Min	23.70	26.05	28.50	30.85	33.20	36.40	39.55	42.75	46.00
	Max	24.30	26.70	29.05	31.45	33.80	37.00	40.15	43.35	46.50
E1		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.93	38.10
D1	Min	14.40	17.65	21.40	24.65	27.82	29.24	33.70	36.92	40.06
	Max	14.53	17.78	21.59	24.77	27.94	30.66	33.83	37.00	40.18
D2	Min	9.85	12.80	16.00	18.95	22.10	25.10	28.25	31.40	34.60
	Max	9.95	12.90	16.10	19.05	22.20	25.20	28.35	31.50	34.70
J	Min	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.73	3.73
	Max	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.83	3.83
L1	Min	20.71	20.71	20.71	20.71	20.71	20.71	19.96	19.96	19.96
	Max	20.83	20.83	20.83	20.83	20.83	20.83	20.08	20.08	20.08
L2	Min	5.40	5.40	5.40	5.40	5.40	5.40	6.15	6.15	6.15
	Max	5.55	5.55	5.55	5.55	5.55	5.55	6.35	6.35	6.35
L3	Min	2.14	2.14	2.14	2.14	2.14	2.14	2.90	2.90	2.90
	Max	2.54	2.54	2.54	2.54	2.54	2.54	3.30	3.30	3.30
d	Min	16.66	20.22	23.42	26.59	30.96	32.94	36.12	39.29	42.47
J1	± 0.15	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.91	3.91
e		18.26	20.62	23.01	24.61	26.97	29.36	31.75	34.92	38.10

Plug type 5 & type 15



Shell size		09	11	13	15	17	19	21	23	25
D1	Min	14.35	17.70	21.50	24.65	27.85	30.55	33.75	36.90	40.10
	Max	21.80	25.00	29.30	32.50	35.70	38.50	41.70	43.85	48.00
L1	Min	31.28	31.28	31.28	31.28	31.28	31.28	31.28	31.28	31.28
	Max	31.35	31.35	31.35	31.35	31.35	31.35	31.35	31.35	31.35

* Detail A see page 27

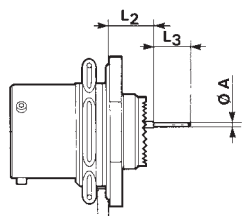
Dimensions in millimeters

8LT Connectors

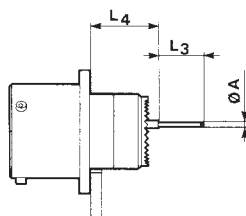


Receptacle with straight spill contact

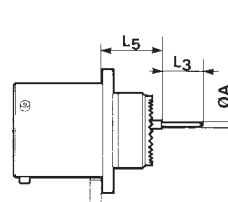
receptacle type 7



receptacle type 0



receptacle type 3



Shell Size					09	11	13	15	17	19	21	23	25
	Contact Size	Contact Type *	Spill Contact **										
Ø A	#22D	M & F	C & L		0.70								
			S		0.50								
	M	M		0.50									
	#20	M & F	C		0.70								
	#16	M & F	C		1.15								
L3	#22D	M & F	C		4 ⁰ _{-0.20}								
			S		5 ±0.1								
			L		8.5 ⁰ _{-0.20}								
		M	M		6 ±0.1								
	#20	M & F	C		5 ±0.1								
	#16	M & F	C		5 ±0.1								
	L2 type 7	8LT #22D	M	C & L	Max	10.06							
Min					9.07								
M			Max	10.21									
			Min	9.23									
F			C & L	Max	10.06								
				Min	8.74								
8LT7S HE308 #22D		M	S	Max	10.23								
				Min	9.24								
		F	S	Max	10.23								
				Min	8.91								
8LT HE308 #20 & #16		M & F	C	Max	10.23								
				Min	9.24								
L4 type 0	#22D	M	C & L	Max	15.08								
				Min	13.91								
			M	Max	15.22								
				Min	14.05								
		F	C & L	Max	15.08								
				Min	13.58								
		M	S	Max	15.25	-							15.25
				Min	14.08	-							14.08
		F	S	Max	15.25	-							15.25
				Min	13.75	-							13.75
	#20 & #16	M & F	C	Max	15.25								
				Min	14.08								
L5 type 3	#22D	M	C & L	Max	12.47						13.22		
				Min	11.60						12.35		
		F	C & L	Max	12.47						13.22		
				Min	11.27						12.02		
		M	S	Max	12.64	-				12.64	13.39		
				Min	11.77	-				11.77	12.52		
		F	S	Max	12.64	-				12.64	13.39		
				Min	11.44	-				11.44	12.19		
#20 & #16	M & F	C	Max	12.64						13.39			
			Min	11.77						12.52			

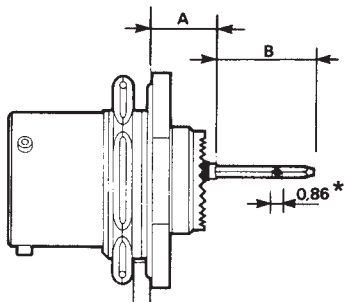
* M: Male Contact, F: Female Contact

** C: Short Spill, M: Medium Spill, L: Long Spill, S: Specific Spill

8LT Connectors



Receptacle type 7 with wire wrap contacts

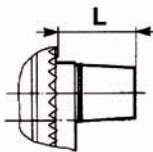


Contact size	Contact type	A	B Max
#22D	W 3 wraps	9.07 to 10.06	16.00
#20	T 2 wraps	9.7 to 10.06	12.60

* See page 35

Detail A

sealing bushing used for triaxial # 8 protude



Shell Type	Type 0	Type 1	Type 3	Type 5	Type 7
L max	13.39	13.58	13.58	13.54	13.58

8LT Connectors



SOURIAU Rack and Panel connectors part numbers

Basic series	8 LT	27	-	15	B	35	P	N	-	-	L
Shell type											
27: Receptacle for rack, for male contacts, with possibility to mount rear accessory											
23: Square flange receptacle (consult us)											
26: Floating plug for rack, for crimp female contacts, with possibility to mount rear accessory											
Type											
None: Connector with standard crimp contacts											
Q: Connector with quadrax crimp contacts											
C: Connector with short spill (male and female #20, #16, #12, #8 quadrax)											
S: Connector with specific straight spill (male and female #22D only)											
L: Connector with long spill (male and female #22D)											
Shell size: 11, 13, 15, 17, 19, 21, 23, 25											
Plating											
F: Nickel B: Olive green cadmium											
Contact layout: See tables pages 14 to 19											
Contact type											
P: Male S: Female											
Polarization: N											
Specification											
None: Supplied with contacts											
251: Connector provided with power contacts (for layout with cavities #8)											
*284: Quadrax grounded (cts 100Ω)											
308: Quadrax not grounded (cts 100Ω)											
*384: Quadrax grounded (cts 150Ω)											
408: Quadrax not grounded (cts 150Ω)											
Special custom											
None: Standard plastic cap M: Antistatic plastic cap											
L: Connector supplied without contacts											

*Excepted mixed layouts with quadrax and signal contacts. Please consult us.

HE 308 Rack and Panel connectors part numbers

Basic series	HE308	26	T	23	01	P	N	7	M	-	-
Shell type											
26: Floating plug for rack, for crimp female contacts, with possibility to mount rear accessory											
27: Receptacle for rack, for male contacts, with possibility to mount rear accessory											
21: Receptacle for rack with straight spill contacts											
Class											
T: Sealed											
Shell size: 11, 13, 15, 17, 19, 21, 23											
Contact layout: See tables pages 14 to 19											
Contact type											
P: Male S: Female											
Polarization: N											
Plating											
7: Olive green cadmium											
Contractual specifications											
M: DAT quality insurance											
Special custom											
None: Standard plastic cap M: Antistatic plastic cap											
Specifications											
None: Connector supplied with contact L: Connector supplied without contact											

8LT Connectors



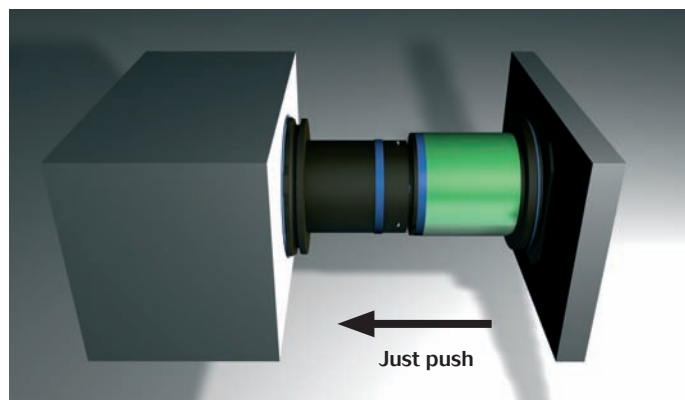
Rack & Panel, features and benefits

- Signal and Power connector
- Easy and fast connection without any coupling/uncoupling between a float-mounting unit and a fixed unit.
- 100% scoop proof
- Plug misalignment allowed
- Rear accessories available
- 8 shell sizes available: from 11 to 23 with DTAT-C5935-X0005 layout - including power contact cavities
- Sealing as per HE 308
- EMI performances as per DTAT-C5935-X0005

Shell Size	Mated Force (daN)	Unmated Force (daN)
11	20	12
13	30	13
15	35	15
17	50	16
19	55	18
21	65	22
23	80	27
25 *	-	-

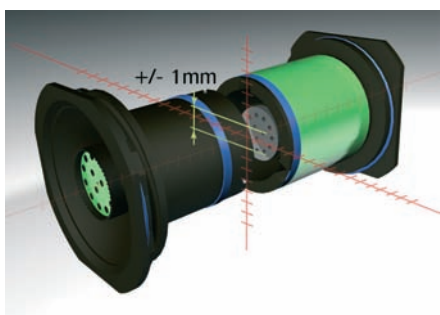
* Please consult us

Blind mateable connector

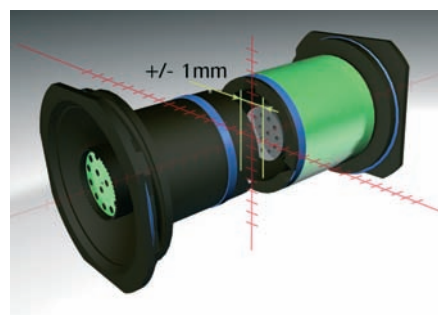


Just push to connect... and release to disconnect

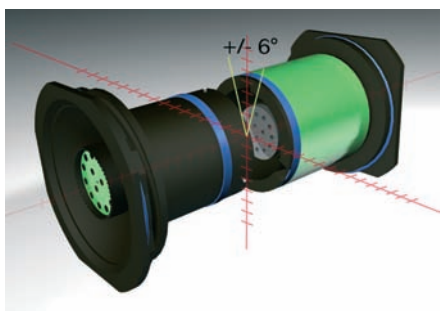
Superior misalignment allowances



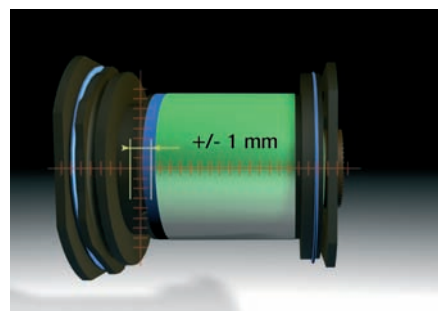
Axial alignment



Axial alignment



Angular alignment



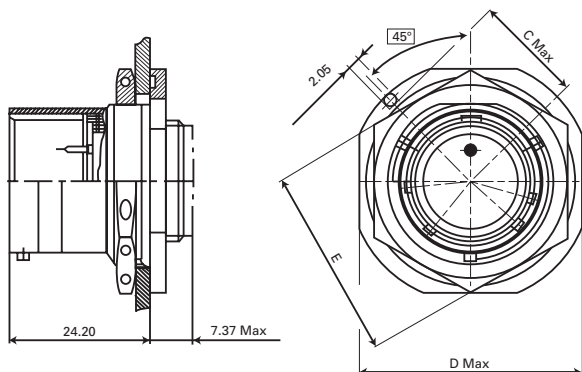
Longitudinal alignment

8LT Connectors



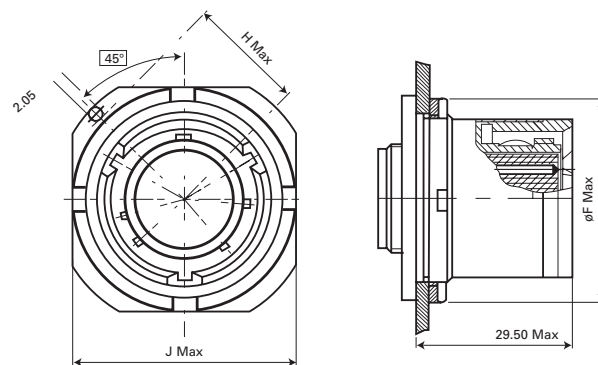
Rack & Panel, dimensions

Equipment receptacle (type 27)



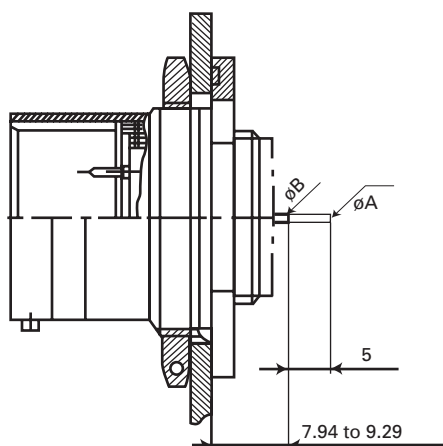
Shells	11	13	15	17	19	21	23	25
C Max	15.33	16.92	18.51	20.10	22.67	24.26	25.84	27.43
D Max	32.16	35.34	38.51	41.69	46.43	49.64	52.78	56.00
E	25.55	30.30	33.45	36.65	39.80	43	46.15	50.95

Rack plug (type 26)



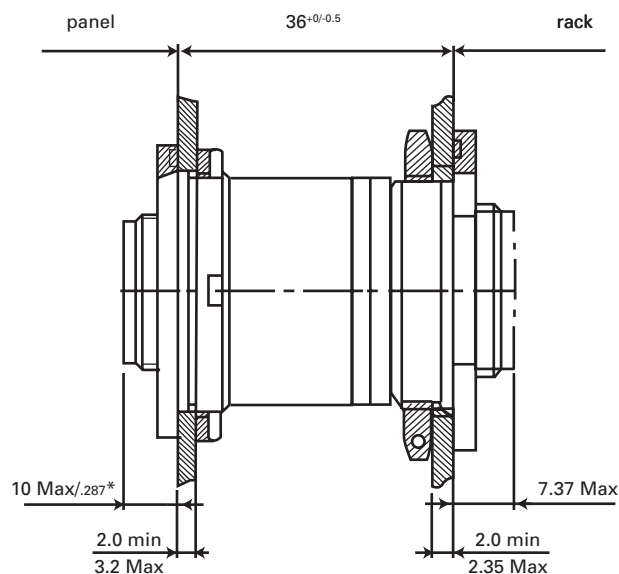
Shells	11	13	15	17	19	21	23	25
ØF Max	32.10	35.25	38.40	41.60	46.30	49.60	52.70	55.90
H Max	16.92	18.51	20.10	22.67	24.26	25.84	27.43	29.03
J Max	32.16	35.34	38.51	41.69	46.43	49.64	52.78	55.96

Square flange receptacle (type 23)



Contact size	#22D	#20	#16
A	0.5	0.7	1.15
B	1	1.5	2.2

Mated connectors plug (type 26) and receptacle (type 27)



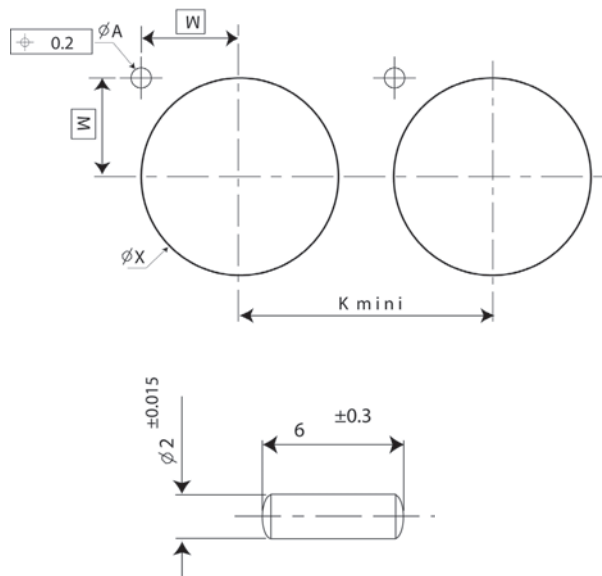
*Included longitudinal alignment

8LT Connectors



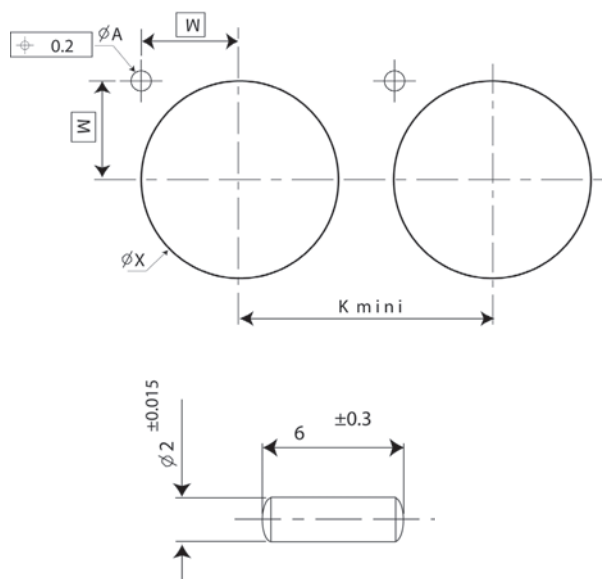
Rack & Panel, panel cut

Plug panel cut



Shell size	Plug			
	W	ϕX°	K mini	ϕA
11	12.81	25.58	32.57	$\phi 2^{-0.05}$
13	13.94	28.80	36	
15	15.06	31.98	39.60	
17	16.88	35.15	43.30	
19	18	38.28	47	
21	19.12	41.50	50.60	
23	20.24	44.68	54.20	
25 *	-	-	-	-

Receptacle panel cut



Shell size	Plug			
	W	ϕX°	K mini	ϕA
11	12.81	25.58	32.57	$\phi 2^{-0.05}$
13	13.94	28.80	36	
15	15.06	31.98	39.60	
17	16.88	35.15	43.30	
19	18	38.28	47	
21	19.12	41.50	50.60	
23	20.24	44.68	54.20	
25 *	-	-	-	-

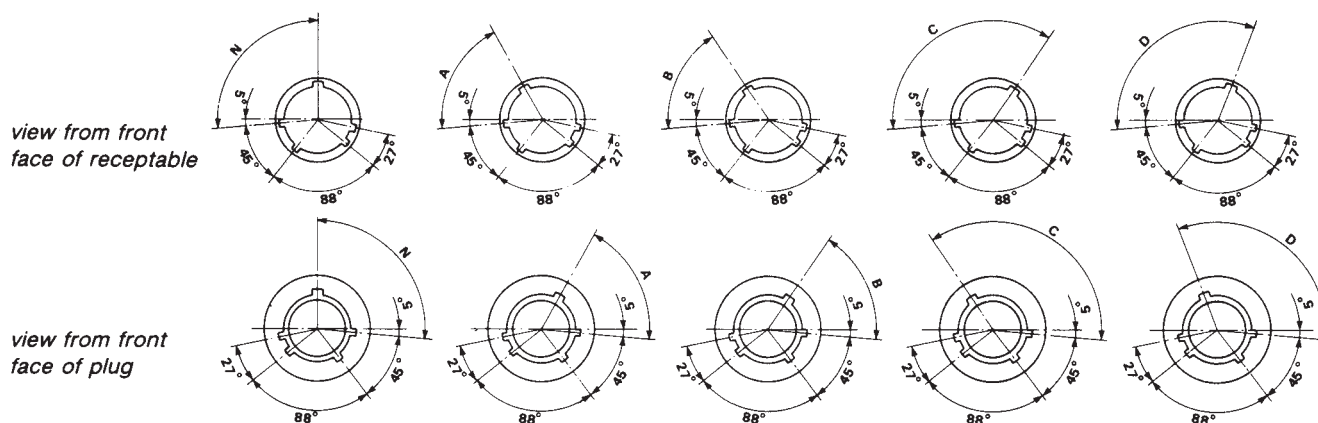
* Please consult us

8LT Connectors



Orientations

Polarization is determined by the master keyway position.
The secondary keyway positions remain fixed.



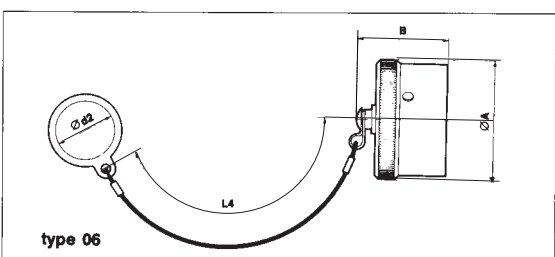
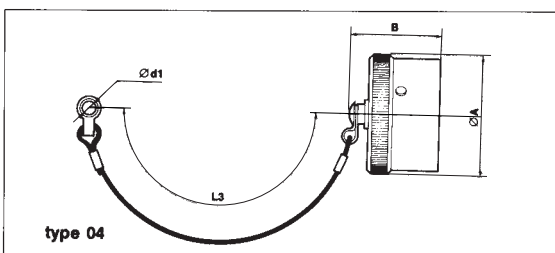
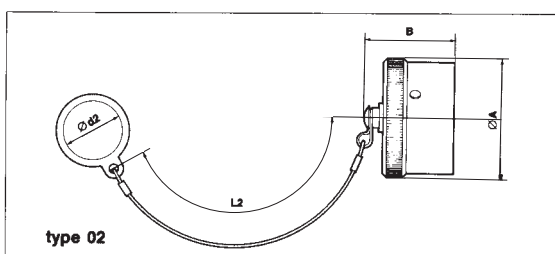
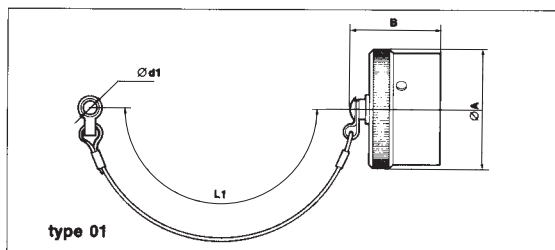
Shell size	Angles (degrees)				
	N	A	B	C	D
09	95	77	-	-	113
11	95	81	67	123	109
13	95	75	63	127	115
15	95	74	61	129	116
17	95	77	65	125	113
19	95	77	65	125	113
21	95	77	65	125	113
23	95	80	69	121	110
25	95	80	69	121	110

8LT Connectors

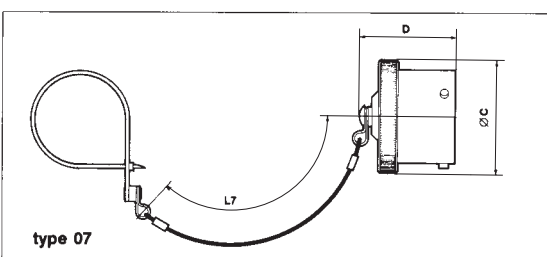
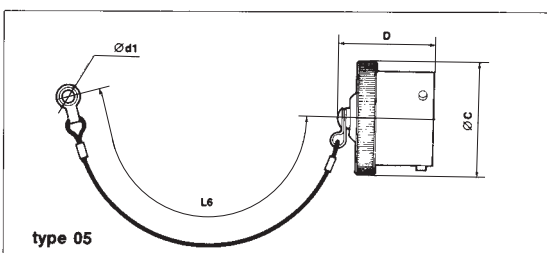
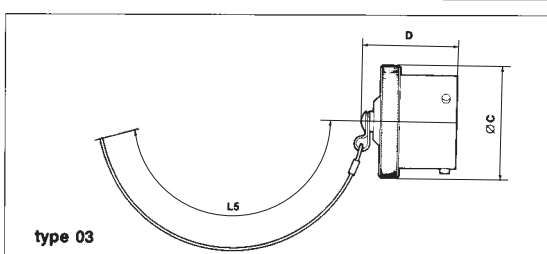
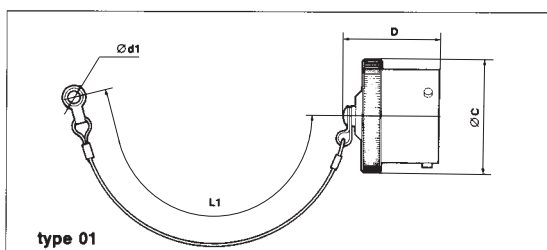


Accessories

Protective cap for receptacles



Protective cap for plugs



Shell size	A Max	B Max	C Max	D Max	d1 min	d2 min	L1	L2	L3 $\pm$ 5	L4 $\pm$ 5	L5 $\pm$ 5	L6 $\pm$ 5	L7 $\pm$ 5
09	21.80	28.00	20.80	29.50	3.20	17.80	76	76	105	105	200	160	160
11	24.90	28.00	23.80	29.50	3.20	21.30	76	76	105	105	200	160	160
13	29.40	28.00	27.70	29.50	3.20	25.70	89	89	105	105	200	160	160
15	32.50	28.00	30.20	29.50	3.20	29.00	89	89	105	105	200	160	160
17	35.80	28.00	33.50	29.50	3.20	32.00	89	89	105	105	200	160	160
19	38.60	28.00	36.50	29.50	3.20	35.30	89	89	105	105	200	160	160
21	41.90	28.00	39.80	29.50	3.20	38.40	102	102	105	105	200	160	160
23	44.90	28.00	42.90	29.50	3.20	41.70	102	102	105	105	200	160	160
25	48.00	28.00	46.20	29.50	3.20	44.70	102	102	105	105	200	160	160

8LT Connectors

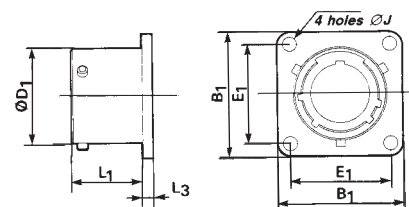


Protective caps

Basic series	8LT	E	01	B	13
Cap type E: Cap for receptacle F: Cap for plug					
Fixing type Cap for receptacle 01: Plastic sleeved metal card with eyelet 02: Plastic sleeved metal card with ring 04: Nylon cord with eyelet 06: Nylon cord with ring 10: Black nylon cord with eyelet Cap for plug 01: Plastic sleeved metal card with eyelet 03: Nylon cord without fastener 05: Nylon cord with eyelet 07: Nylon cord with strap					
Plating B: Olive green cadmium F: Nickel					
Shell size: 09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25					

Dummy receptacle

Shell size	Part numbers	L1 Max	L3 Max	D1 Max	B1 Max	E1	J
09	8LT0-09GUR	16.05	2.54	14.53	24.25	18.26	3.25
11	8LT0-11GUR	16.05	2.54	17.78	26.60	20.62	3.25
13	8LT0-13GUR	16.05	2.54	21.59	29.00	23.01	3.25
15	8LT0615GUR	16.05	2.54	24.77	31.35	24.61	3.25
17	8LT0-17GUR	16.05	2.54	27.94	33.75	26.97	3.25
19	8LT0-19GUR	16.05	2.54	30.66	36.90	29.36	3.25
21	8LT0-21GUR	15.29	3.30	33.83	40.10	31.75	3.25
23	8LT0-23GUR	15.29	3.30	37.00	43.25	34.93	3.73
25	8LT0-25GUR	15.29	3.30	40.18	46.50	38.10	3.73



Plastic protective caps

Shell size	Part numbers for standard cap	
	Caps for receptacle	Caps for plug
09	8500-5594	70609
11	MS90376-12R	MS90376-16Y
13	8500-5588A	8500-5600
15	8500-5589A	8500-5601
17	MS90376-20YF	8500-5602
19	8500-5601	8500-5592A
21	8500-5602	8500-5593A
23	MS90376-24R	MS90376-24R
25	8500-5593A	J599ABC6009A00

Shell size	Part numbers for antistatic cap	
	Caps for receptacle	Caps for plug
09	MS90376-10RF	MS90376-14RF
11	MS90376-12RF	MS90376-16RF
13	8500-5588N	8500-5600N
15	MS90376-18YF	8500-5601N
17	MS90376-20YF	8500-5602N
19	8500-5601N	8500-5592N
21	8500-5602N	8500-5593N
23	MS90376-24RF	-
25	8500-5593N	-

8LT Connectors



Panel gasket

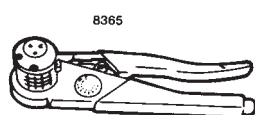
Shell size	Part numbers	
	Gasket for receptacle type 0, 2, 3 (to be ordered separately)	O ring for receptacle type 7 (shipped with connector)
09	8599-5541	AS3582-019
11	8599-5542	AS3582-022
13	8599-5543	AS3582-024
15	8599-5544	AS3582-026
17	8599-5545	AS3582-028
19	8599-5546	AS3582-128
21	8599-5547	AS3582-130
23	8599-5548	AS3582-132
25	8599-5549	AS3582-134

Tooling

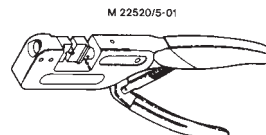
Crimping (#22D, #20, #16 and #12)

Contact size	Wire sizes		Type	Pliers						
				M22520/1-01 (Souriau 8365)		M22520/2-01 (Souriau 8476-01)		M300 BT Locator P / N	M21520/23-01	
	mm²	AWG		P / N turret		P / N locator			P / N turret	P / N locator
				Norm/Spec	Souriau	Norm/Spec	Souriau			
#22D	0.38	22	M	-	-	M22520/2-09	8476-09	-	-	-
	0.21	24								
	0.15	26	F	-	-	M22520/2-07	8476-07	-	-	-
	0.095	28								
#20	0.60	20	M	M22520/1-04	8365-04	M22520/2-10	8476-10	-	-	-
	0.38	22								
	0.21	24	F	M22520/1-04	8365-04	M22520/2-10	8476-10	-	-	-
#16	1.34	16	M	M22520/1-04	8365-04	-	-	-	-	-
	0.93	18								
	0.60	20	F	M22520/1-04	8365-04	-	-	-	-	-
#12	3.18	12	M	M22520/1-04	8365-04	-	-	-	-	-
	1.91	14	F	M22520/1-04	8365-04	-	-	-	-	-
#8 power	8.98	8	M	-	-	-	-	SP 593	M22520/23-02	8599-9601
	max	max	F	-	-	-	-			
#4 power*	10	7	M	-	-	-	-		M22520/23-04	M22520/23-11
	16	4	F	-	-	-	-			

* Pneumatic pliers



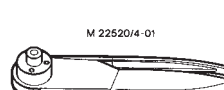
8365



M 22520/5-01



8476-01



M 22520/4-01

8LT Connectors



Coaxial contact #16

Contat type	Pliers	Locators
Inner contact	M22520/2-01	M22520/2-35
Outer contact	M22520/4-01	M22520/4-02

Triaxial contact #8

Contat type	Pliers	Locators
Middle contact	M22520/5-01	Y 631 closure B
Inner contact	M22520/2-01	K 709
Ferrule	M22520/5-01	Y 631 closure A

Quadrax contact #8

Outer body: M2252015-01 crimping tool and M2252015-45 dieset rep B

Signal contact: M22520/201 crimping tool and K709 positioner

Dummy contact #8

Part number
8599-0308



Dummy contact #4

Part number
8599-0310

Filler plugs

Contact size	Part Numbers		Colour
	Spec	Souriau	
#22D	MS27488-22	8660-212	Black
#20	MS27488-20	8522-389A	Red
#16	MS27488-16	8522-390A	Blue
#12	MS27488-12	8522-391A	Yellow



Direction of introduction
in grommet

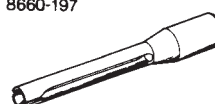
Insertion and extraction of wired contacts

Contact size	Material	Part Numbers		Colour	
		Spec	Souriau	Insertion	Extraction
#22D	Plastic	M81969/14-01	8599-0022	Green	White
#20	Pastic	M81969/14-10	8522-20	Red	Orange
#16	Plastic	M81969/14-03	8522-16	Blue	White
#12	Plastic	M81969/14-04	8522-12	Yellow	White
#10	Plastic	M81969/14-05	-	Grey	White
#8	Metallic	-	8660-197	manual insertion	No colour
	Plastic	M81969/14-12	-		Red
#4	Metallic	-	8533-8175	-	No colour
	Plastic	M81969/14-07	-		Blue



Colored tip for insertion
White tip for extraction

8660-197

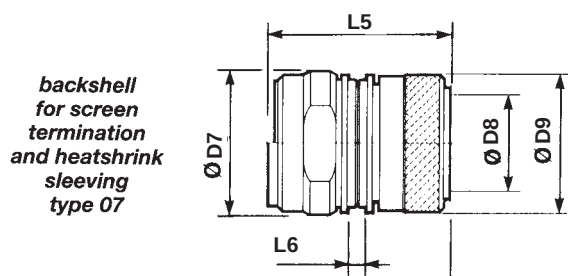


8LT Connectors



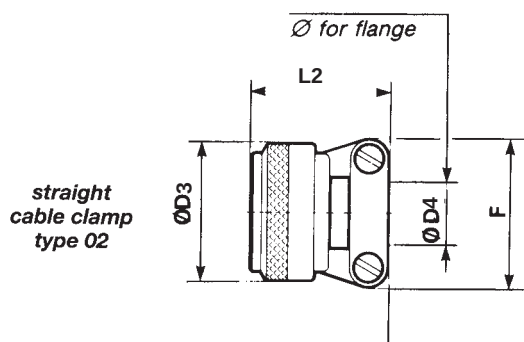
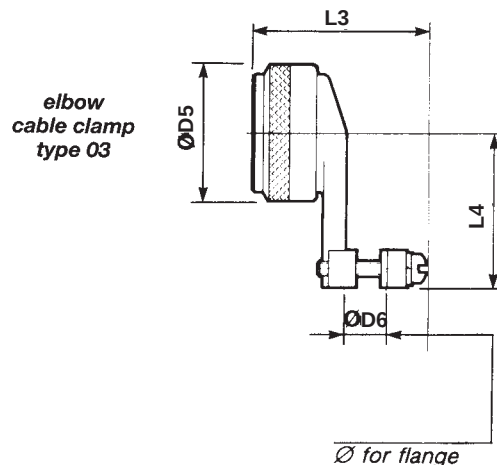
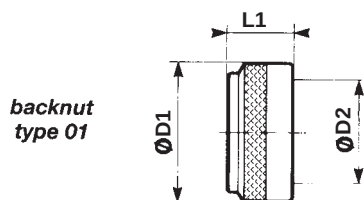
Backshells

Basic type										8 LST	103	B	01	-
Shell size	09	11	13	15	17	19	21	23	25					
Index number	101	102	103	104	105	106	107	108	109					
Plating														
F: Nickel														
B: Olive green cadmium (MIL C 38999)														
Backshell type														
01: Backnut														
02: Straight cable clamp														
03: Elbow cable clamp														
07: Backshell for screen termination and heatshrink sleeving														
Suffix														
1: For backshell type 07 only - For receptacle type 0 (shells 09 to 25) and for plug type 5 (shells 09 to 23)														
None: For all other backshells														



Shell size		09	11	13	15	17	19	21	23	25
D7 Max		20.20	23.20	26.20	29.20	32.20	35.20	39.20	42.20	45.20
D8	Min	6.90	9.60	12.70	14.80	17.90	19.90	23.10	26.20	28.80
	Max	7.00	9.70	12.80	14.90	18.00	20.00	23.20	26.30	28.90
D9 Max		16.00	18.90	22.10	25.30	28.50	31.50	34.70	37.90	41.00
L5 for receptacle type 0 - 3 - 1	T1	27.80	27.80	27.80	29.80	29.80	30.80	34.60	34.60	34.60
L5 Max for plug type 5	T1	27.80	27.80	27.80	29.80	29.80	30.80	34.60	34.60	-
L6 Max		3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40

8LT Connectors



Shell size		09	11	13	15	17	19	21	23	25
D1 Max		15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
D2 Max		6.96	10.46	13.36	16.53	19.71	22.40	25.56	28.75	31.93
L1 Max		11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
D3 Max		15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
D4	Min	1.40	1.40	2.40	5.60	5.60	8.80	11.90	15.10	15.10
	Max	3.20	4.80	6.40	9.50	12.70	15.90	19.10	22.20	25.40
F Max		21.03	22.63	25.81	28.98	30.56	37.31	37.31	42.06	44.45
L2 Max		22.22	22.22	22.22	28.57	28.57	28.57	28.57	31.75	31.75
L5 Max		47.22	48.02	49.52	55.92	59.42	59.42	59.42	59.42	59.42
D5 Max		15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
D 6	Max	3.20	4.00	4.80	5.50	6.40	7.90	9.50	10.30	14.30
	Min	6.40	9.50	11.10	14.30	15.90	19.10	22.20	23.80	25.40
L3	Max	35.32	35.32	37.30	41.67	46.04	46.45	48.43	51.98	54.78
L4	Max	25.40	26.19	27.79	30.96	32.54	34.14	34.93	36.53	43.66



- High density connectors from 1 to 128 contacts
- Sizes 22D, 20, 16, 12
- A compact profile
- Bayonet locking system
- An excellent shock vibration and fluid resistance

- Shell : aluminum alloy
- Plating :
 - olive green cadmium (G and B)
 - nickel (F) - hard anodized (C)
- Insulator : thermoplastic
- Grommet and seal : silicone elastomer
- Contact : copper alloy
- Plating : gold over nickel
- Endurance :
 - 500 mating/unmating operations
- Shock : 300 g during 3 ms
- Vibration :
 - random 100 to 1000 Hz - 1 g²/Hz
- Contact retention (mini force in N) :

size 22D : 44 N	size 20 : 67 N
size 16 : 110 N	size 12 : 110 N

Service	sea level	at 21000 m
M	1300	800
I	1800	1000
II	2300	1000

- Contact resistance :
size 22 D : 14.6 mΩ size 16 : 3.8 mΩ
size 20 : 7.3 mΩ
- Insulation resistance :
≥ 5000 MΩ (at 500 Vdc)
- Contact rating :
size 22 D : 5 A size 16 : 13 A
size 20 : 7.5 A size 12 : 23 A
- Shell continuity :
- olive green plating : 2.5 mΩ
- nickel plating : 1 mΩ

- Temperature range :
 - cadmium plating (G) -65°C +175°C
 - (B) -65°C +175°C
 - nickel plating (F) -65°C +200°C
 - hard anodized (C) -65°C +200°C
- Sealing : mated connectors
differential pressure 1 bar ; leakage $\leq 8 \text{ cm}^3/\text{hr}$
- Salt spray to :
MIL-STD 1344 method 1001
 - 500 hours (plating B)
 - 48 hours (plating F-C)NFC 93422
 - 48 hours (plating G-F-C)
- Damp heat :
 - MIL-C 38999 : 10 cycles (24 hours)
 - NFC 93422 : 56 days

To MIL-L 38999 :
MIL-L 7808, MIL-L 23699, MIL-H 5606,
MIL-A 8243, MIL-L 25769, MIL-G 3056,
MIL-T 5624 (JP5) ; hydraulic fluids ; solvents
To NFC 93422 :
F 46, F 54, 0/180, H 515, H 542, XH 45

basic series		8 T	3	-	14	G	35	P	N
shell type	2 - square flange receptacle not accepting backshells								
	3 - square flange receptacle (rear mounting)								
	7 - jam nut receptacle								
	1 - cable connecting receptacle								
	6 - plug								
designator	- connectors with standard crimp contacts								
	L - receptacle with long spill (male and female # 22D)								
	C - receptacle with short spill (male # 22D - # 20 - # 16)								
shell size	08-10-12-14-16-18-20-22-24								
plating	G - olive green cadmium (HE 309)								
	F - nickel								
	B - olive green cadmium (MIL-C 38999)								
	C - hard anodized								
contact layout	- see table p 120								
contact type	P - male		A - male connector without contact or with special contacts						
	S - female		B - female connector without contact or with special contacts						
polarization	N-A-B-C-D - see table p 100								

Note : connectors supplied with standard contacts

8T Series



MIL-C 38999 Series II

basic series		MS	27497	T	14	B	35	P	•
shell type	27508 - square flange receptacle without thread for back fitting 27497 - square flange receptacle (rear mounting) 27474 - jam nut receptacle 27473 - plug								
class	T - with thread for backshell, supplied without backshell E - without thread for backshell only for MS 27508								
shell size	08-10-12-14-16-18-20-22-24								
plating	B - olive green cadmium F - nickel C - hard anodized								
contact layout	- see table p 120								
contact type	P - male A - male connector supplied without contact or with special contacts S - female B - female connector supplied without contact or with special contacts								
polarization	N - Normal (not included in part number) A-B-C-D - see table p 100								

backshells

basic series		8LST	104	G	01
shell size	08 10 12 14 16 18 20 22 24				
index number	101 102 103 104 105 106 107 108 109				
plating	B - olive green cadmium (MIL. C 38999) F - nickel				
backshell type	01 - backnut 03 - elbow cable clamp 02 - straight cable clamp				

Cross reference list - part numbers cross reference list FCI Souriau and MIL-C 38999 NFC 93422 - PAN 6433-1

	FCI Souriau	MIL-C 38999 Series II	NFC 93422 / HE 309	PAN 6433-1
Square flange receptacle without thread for back fitting	8T2 - •• G •• P □		HE 309-05T •• - •• P □ 7	PAN 6433-1E •• - •• P □
	8T2 - •• G •• A □		HE 309-05T •• - •• P □ 7L	
	8T2 - •• G •• S □		HE 309-05T •• - •• S □ 7	PAN 6433-1E •• - •• S □
	8T2 - •• G •• B □		HE 309-05T •• - •• S □ 7L	
	8T2 - •• B •• P □	MS27508E •• B •• P □		
	8T2 - •• B •• A □	MS27508E •• B •• A □		
	8T2 - •• B •• S □	MS27508E •• B •• S □		
	8T2 - •• B •• B □	MS27508E •• B •• B □		
	8T2 - •• F •• P □	MS27508E •• F •• P □	HE 309-05T •• - •• P □ 6	
	8T2 - •• F •• A □	MS27508E •• F •• A □	HE 309-05T •• - •• P □ 6L	
	8T2 - •• F •• S □	MS27508E •• F •• S □	HE 309-05T •• - •• S □ 6	
	8T2 - •• F •• B □	MS27508E •• F •• B □	HE 309-05T •• - •• S □ 6L	
	8T2 - •• C •• P □	MS27508E •• C •• P □	HE 309-05T •• - •• P □ 8	
	8T2 - •• C •• A □	MS27508E •• C •• A □	HE 309-05T •• - •• P □ 8L	
	8T2 - •• C •• S □	MS27508E •• C •• S □	HE 309-05T •• - •• S □ 8	
	8T2 - •• C •• B □	MS27508E •• C •• B □	HE 309-05T •• - •• S □ 8L	
Square flange receptacle with thread for back fitting	8T3 - •• G •• P □		HE 309-03T •• - •• P □ 7	PAN 6433-1B •• - •• P □
	8T3 - •• G •• A □		HE 309-03T •• - •• P □ 7L	
	8T3 - •• G •• S □		HE 309-03T •• - •• S □ 7	PAN 6433-1B •• - •• S □
	8T3 - •• G •• B □		HE 309-03T •• - •• S □ 7L	
	8T3 - •• B •• P □	MS27497T •• B •• P □		
	8T3 - •• B •• A □	MS27497T •• B •• A □		
	8T3 - •• B •• S □	MS27497T •• B •• S □		
	8T3 - •• B •• B □	MS27497T •• B •• B □		
	8T3 - •• F •• P □	MS27497T •• F •• P □	HE 309-03T •• - •• P □ 6	
	8T3 - •• F •• A □	MS27497T •• F •• A □	HE 309-03T •• - •• P □ 6L	
	8T3 - •• F •• S □	MS27497T •• F •• S □	HE 309-03T •• - •• S □ 6	
	8T3 - •• F •• B □	MS27497T •• F •• B □	HE 309-03T •• - •• S □ 6L	
	8T3 - •• C •• P □	MS27497T •• C •• P □	HE 309-03T •• - •• P □ 8	
	8T3 - •• C •• A □	MS27497T •• C •• A □	HE 309-03T •• - •• P □ 8L	
	8T3 - •• C •• S □	MS27497T •• C •• S □	HE 309-03T •• - •• S □ 8	
	8T3 - •• C •• B □	MS27497T •• C •• B □	HE 309-03T •• - •• S □ 8L	

8T Series



Cross reference list - FCI Souriau part numbers and MIL-C 38999, NFC 93422 - PAN 6433-1 standard

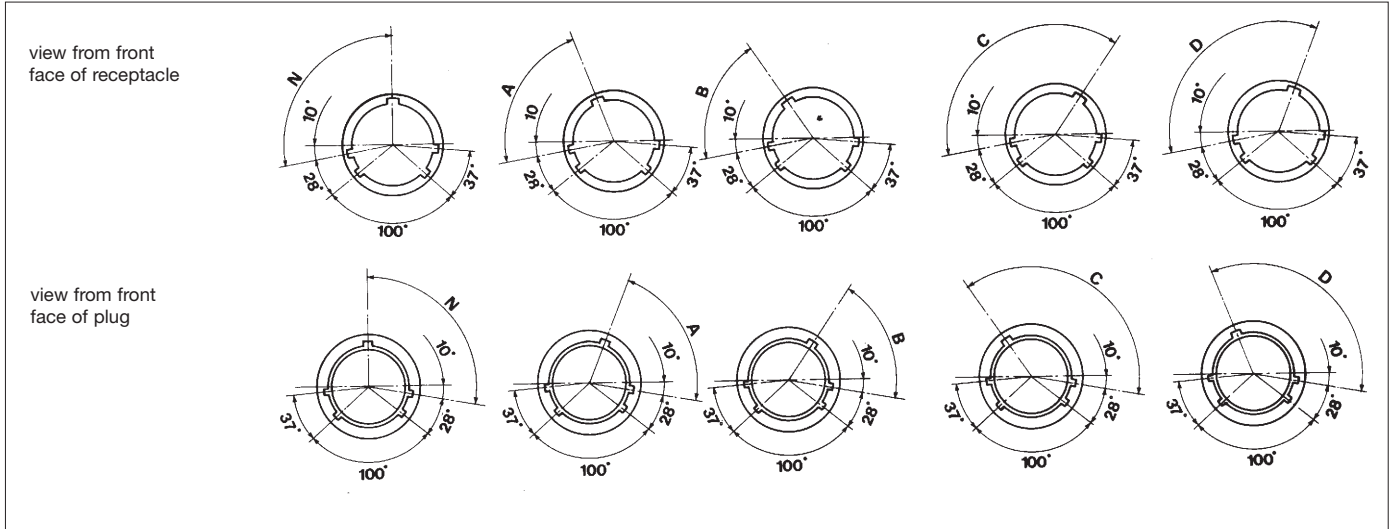
	FCI Souriau	MIL-C 38999 Series II	NFC 93422 / HE 309	PAN 6433-1
Jam nut receptacle	8T7 - ●● G ●● P □ 8T7 - ●● G ●● A □ 8T7 - ●● G ●● S □ 8T7 - ●● G ●● B □ 8T7 - ●● B ●● P □ 8T7 - ●● B ●● A □ 8T7 - ●● B ●● S □ 8T7 - ●● B ●● B □ 8T7 - ●● F ●● P □ 8T7 - ●● F ●● A □ 8T7 - ●● F ●● S □ 8T7 - ●● F ●● B □ 8T7 - ●● C ●● P □ 8T7 - ●● C ●● A □ 8T7 - ●● C ●● S □ 8T7 - ●● C ●● B □	MS27474T ●● B ●● P □ MS27474T ●● B ●● A □ MS27474T ●● B ●● S □ MS27474T ●● B ●● B □ MS27474T ●● F ●● P □ MS27474T ●● F ●● A □ MS27474T ●● F ●● S □ MS27474T ●● F ●● B □ MS27474T ●● C ●● P □ MS27474T ●● C ●● A □ MS27474T ●● C ●● S □ MS27474T ●● C ●● B □	HE 309-07T ●● - ●● P □ 7 HE 309-07T ●● - ●● P □ 7L HE 309-07T ●● - ●● S □ 7 HE 309-07T ●● - ●● S □ 7L HE 309-07T ●● - ●● P □ 6 HE 309-07T ●● - ●● P □ 6L HE 309-07T ●● - ●● S □ 6 HE 309-07T ●● - ●● S □ 6L HE 309-07T ●● - ●● P □ 8 HE 309-07T ●● - ●● P □ 8L HE 309-07T ●● - ●● S □ 8 HE 309-07T ●● - ●● S □ 8L	PAN 6433-1A ●● - ●● P □ PAN 6433-1A ●● - ●● S □
Cable connecting receptacle	8T1 - ●● G ●● P □ 8T1 - ●● G ●● A □ 8T1 - ●● G ●● S □ 8T1 - ●● G ●● B □ 8T1 - ●● B ●● P □ 8T1 - ●● B ●● A □ 8T1 - ●● B ●● S □ 8T1 - ●● B ●● B □ 8T1 - ●● F ●● P □ 8T1 - ●● F ●● A □ 8T1 - ●● F ●● S □ 8T1 - ●● F ●● B □ 8T1 - ●● C ●● P □ 8T1 - ●● C ●● A □ 8T1 - ●● C ●● S □ 8T1 - ●● C ●● B □			
Plug without RFI shielding	8T6 - ●● G ●● P □ 8T6 - ●● G ●● A □ 8T6 - ●● G ●● S □ 8T6 - ●● G ●● B □ 8T6 - ●● B ●● P □ 8T6 - ●● B ●● A □ 8T6 - ●● B ●● S □ 8T6 - ●● B ●● B □ 8T6 - ●● F ●● P □ 8T6 - ●● F ●● A □ 8T6 - ●● F ●● S □ 8T6 - ●● F ●● B □ 8T6 - ●● C ●● P □ 8T6 - ●● C ●● A □ 8T6 - ●● C ●● S □ 8T6 - ●● C ●● B □	MS27473T ●● B ●● P □ MS27473T ●● B ●● A □ MS27473T ●● B ●● S □ MS27473T ●● B ●● B □ MS27473T ●● F ●● P □ MS27473T ●● F ●● A □ MS27473T ●● F ●● S □ MS27473T ●● F ●● B □ MS27473T ●● C ●● P □ MS27473T ●● C ●● A □ MS27473T ●● C ●● S □ MS27473T ●● C ●● B □	HE 309-06T ●● - ●● P □ 7 HE 309-06T ●● - ●● P □ 7L HE 309-06T ●● - ●● S □ 7 HE 309-06T ●● - ●● S □ 7L HE 309-06T ●● - ●● P □ 6 HE 309-06T ●● - ●● P □ 6L HE 309-06T ●● - ●● S □ 6 HE 309-06T ●● - ●● S □ 6L HE 309-06T ●● - ●● P □ 8 HE 309-06T ●● - ●● P □ 8L HE 309-06T ●● - ●● S □ 8 HE 309-06T ●● - ●● S □ 8L	PAN 6433-1F ●● - ●● P □ PAN 6433-1F ●● - ●● S □
Contacts - filler plugs - tools	8599-0902 8599-0903 8599-0904 8599-0905 8599-0910 8599-0911 8599-0912 8599-0913 8660-212 8522-389A 8522-390A 8599-0022 8522-20 8522-16	M39029/58-360 M39029/58-363 M39029/58-364 M39029/58-365 M39029/57-354 M39029/57-357 M39029/57-358 M39029/57-359 M27488-22 M27488-20 M27488-16 M81969/14-01 M81969/14-02 M81969/14-03		PAN 6433-1P PAN 6433-1S PAN 6433-1N
Backshells	8LST ●●● G01 8LST ●●● B01 8LST ●●● F01	M85049/27 ●● W M85049/27 ●● N	HE 309-17 ●● 7 HE 309-17 ●● 6	

8T Series



Polarization

Polarization is determined by the master keyway position. The secondary keyway positions remain fixed.



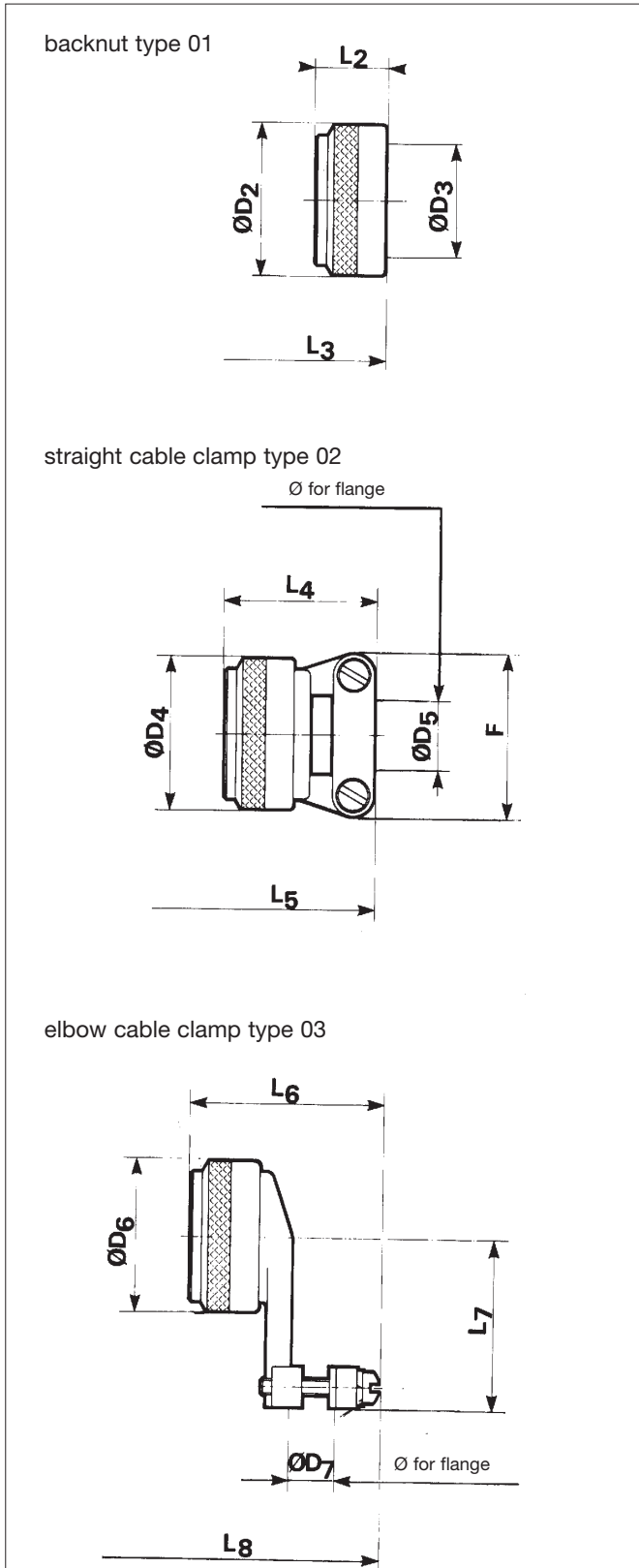
shell size	contacts layout	service			number of contacts				angle in degrees				
		M	I	II	# 22D Ø 0,76	# 20 Ø 1	# 16 Ø 1,6	# 12 Ø 2,4	N	A	B	C	D
08	35	X			6				100	82	-	-	118
10	35	X			13				100	86	72	128	114
12	35	X							100	80	68	132	120
14	35	X			37				100	79	66	134	121
	18		X			18			100	79	66	134	121
16	35	X			55				100	82	70	130	118
	08			X			8		100	82	70	130	118
	06		X					6	100	82	70	130	118
18	35	X			66				100	82	70	130	118
20	35	X			79				100	82	70	130	118
	41		X			41			100	82	70	130	118
	16			X			16		100	82	70	130	118
	11			X				11	100	82	70	130	118
22	35	X			100				100	85	74	126	115
24	35	X			128				100	85	74	126	115
	61		X			61			100	85	74	126	115
	29		X				29		100	85	74	126	115
	24		X				12	12	100	85	74	126	115

8T Series

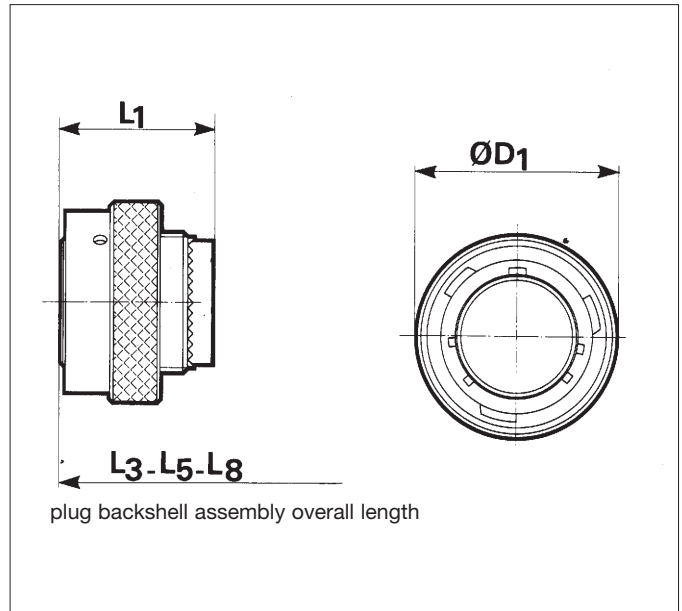


Dimensions

backshells



plug type 6



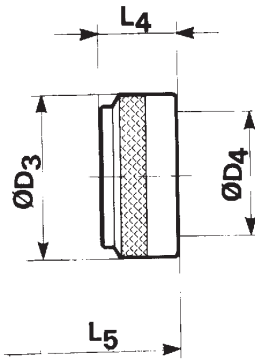
shell size	08	10	12	14	16	18	20	22	24
D 1 Max	19.05 .750	21.82 .859	26.19 1.031	29.36 1.156	32.54 1.281	35.71 1.406	38.89 1.531	41.68 1.641	44.86 1.766
L1 Max	23.27 .916	23.27 .916	23.27 .916	23.27 .916	23.27 .916	23.27 .916	23.27 .916	23.27 .916	25.00 .984
D2 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D3 Max	6.96 .274	10.46 .412	13.36 .526	16.53 .651	19.71 .776	22.40 .882	25.56 1.006	28.75 1.132	31.93 1.257
L2 Max	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445
L3 Max	25.16 .991	25.16 .991	25.16 .991	25.16 .991	25.16 .991	25.16 .991	25.16 .991	25.16 .991	27.14 1.069
D4 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D5	min 1.40 .055	1.40 .055	2.40 .094	5.60 .220	5.60 .220	8.80 .346	11.90 .469	15.10 .591	15.10 .594
	Max 3.20 .126	4.80 .189	6.40 .252	9.50 .374	12.70 .500	15.90 .626	19.10 .752	22.20 .874	25.40 1.000
F Max	21.03 .828	22.63 .891	25.81 1.016	28.98 1.141	30.56 1.203	37.31 1.469	37.31 1.469	42.06 1.656	44.45 1.750
L4 Max	22.22 .875	22.22 .875	22.22 .875	28.57 1.125	28.57 1.125	28.57 1.125	28.57 1.125	31.75 1.250	31.75 1.250
L5 Max	41.26 1.624	41.26 1.624	41.26 1.624	47.16 1.857	47.16 1.857	47.16 1.857	47.16 1.857	50.76 1.998	50.74 1.998
D6 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D7	min 3.20 .126	4.00 .157	4.80 .189	5.50 .217	6.40 .252	7.90 .311	9.50 .374	10.30 .406	14.30 .563
	Max 6.40 .252	9.50 .374	11.10 .437	14.30 .563	15.90 .626	19.10 .752	22.20 .874	23.80 .937	25.40 1.000
L6 Max	35.32 1.391	35.32 1.391	37.30 1.469	41.67 1.641	46.04 1.813	46.45 1.829	48.43 1.907	51.98 2.046	54.78 2.157
L7 Max	25.40 1.000	26.19 1.031	27.79 1.094	30.96 1.219	32.54 1.281	34.14 1.344	34.93 1.375	34.53 1.359	43.66 1.719
L8 Max	48.82 1.922	48.82 1.922	50.80 2.000	55.17 2.172	59.54 2.344	59.95 2.360	61.93 2.438	65.48 2.578	70.26 2.766

8T Series

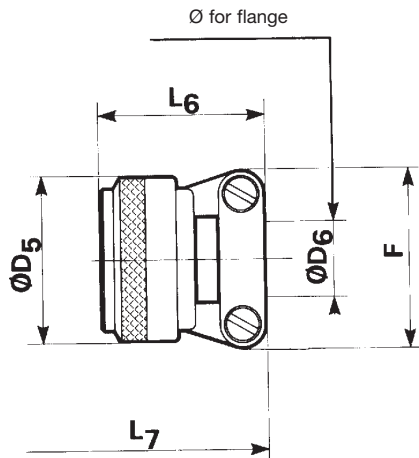


backshells

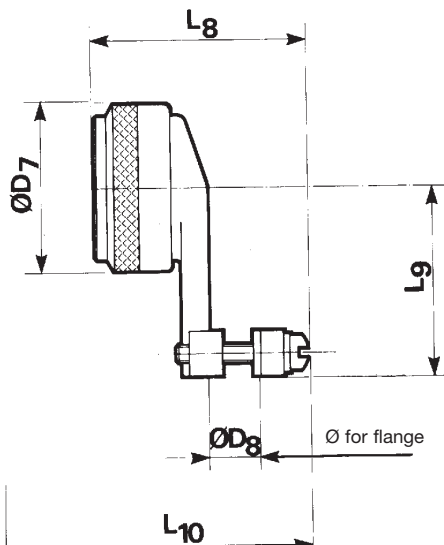
backnut type 01



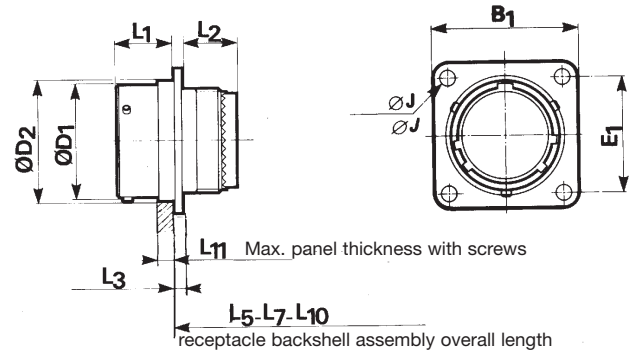
straight cable clamp type 02



elbow cable clamp type 03



receptacle type 3



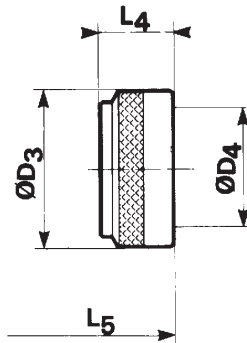
shell size	08	10	12	14	16	18	20	22	24
B1 Max	21.03 .828	24.23 .954	26.59 1.047	28.98 1.141	31.34 1.234	33.73 1.328	36.91 1.453	40.08 1.578	43.26 1.703
E1	15.09 .594	18.26 .719	20.62 .812	23.01 .906	24.61 .969	26.97 1.062	29.36 1.156	31.75 1.250	34.93 1.375
D1 Max	12.04 .474	15.02 .591	19.08 .751	22.25 .876	25.43 1.001	28.61 1.126	31.78 1.251	34.95 1.376	38.13 1.501
D2 Max	13.89 .547	17.07 .672	21.44 .844	24.61 .969	27.79 1.094	30.96 1.219	34.14 1.344	37.31 1.469	40.49 1.594
L1 Max	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447
L2 Max	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	14.00 .551
L3 Max	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069
J Max	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.99 .157
D3 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D4 Max	6.96 .274	10.46 .412	13.36 .526	16.53 .651	19.71 .776	22.40 .882	25.56 1.006	28.75 1.132	31.93 1.257
L4 Max	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445
L5 Max	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	17.61 .693
D5 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D5 min	1.40 .055	1.40 .055	2.40 .094	5.60 .220	5.60 .220	8.80 .346	11.90 .469	15.10 .594	15.10 .594
D6 Max	3.20 .126	4.80 .189	6.40 .252	9.50 .374	12.70 .500	15.90 .626	19.10 .752	22.20 .874	25.40 1.000
F Max	21.03 .828	22.63 .891	25.81 1.016	28.98 1.141	30.56 1.203	37.31 1.469	37.31 1.469	42.06 1.656	44.45 1.750
L6 Max	22.22 .875	22.22 .875	22.22 .875	28.57 1.125	28.57 1.125	28.57 1.125	28.57 1.125	31.75 1.250	31.75 1.250
L7 Max	31.73 1.249	31.73 1.249	31.73 1.249	37.68 1.483	37.68 1.483	37.68 1.483	37.68 1.483	41.23 1.623	41.21 1.622
D7 Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D8 min	3.20 .126	4.00 .157	4.80 .189	5.50 .217	6.40 .252	7.90 .311	9.50 .374	10.30 .406	14.30 .563
D8 Max	6.40 .252	9.50 .374	11.10 .437	14.30 .563	15.90 .626	19.10 .752	22.20 .874	23.80 .937	25.40 1.00
L8 Max	35.32 1.391	35.32 1.391	37.30 1.469	41.67 1.641	46.04 1.813	46.45 1.829	48.43 1.907	51.98 2.046	54.78 2.157
L9 Max	25.40 1.000	26.19 1.031	27.79 1.094	30.96 1.219	32.54 1.281	34.14 1.344	34.93 1.375	36.53 1.438	43.66 1.719
L10 Max	39.29 1.547	39.29 1.547	42.27 1.664	45.64 1.797	50.01 1.969	50.42 1.985	52.40 2.063	55.95 2.203	60.73 2.391
L11 Max	3.71 .146	3.71 .146	3.71 .146	3.71 .146	3.71 .146	3.71 .146	4.27 .168	4.27 .168	4.27 .168

8T Series

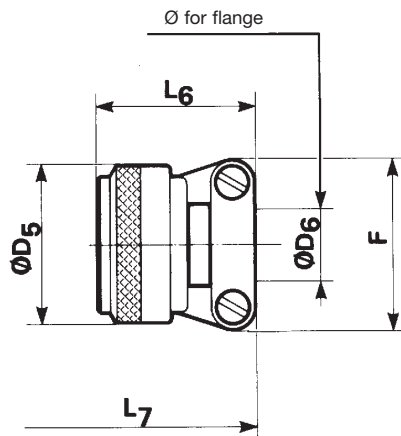


Backshells

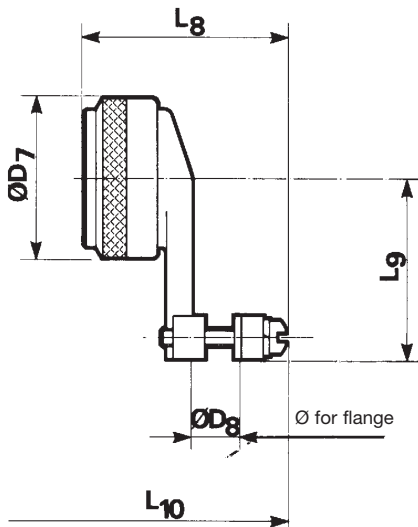
backnut type 01



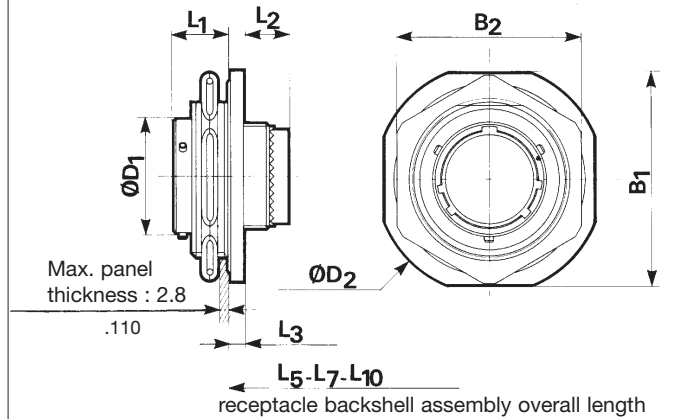
straight cable clamp type 02



elbow cable clamp type 03



Receptacle type 7



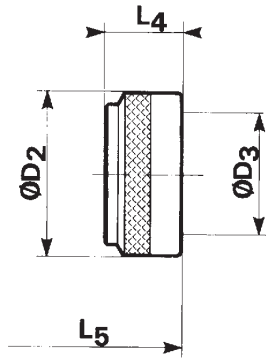
shell size		08	10	12	14	16	18	20	22	24
B1	Max	32.16	35.34	38.51	41.69	45.65	48.42	51.62	54.77	57.94
		1.266	1.391	1.516	1.641	1.797	1.906	2.032	2.156	2.281
B2	Max	27.40	30.61	33.75	36.96	40.10	43.31	46.45	51.23	54.41
		1.079	1.205	1.329	1.455	1.579	1.705	1.829	2.017	2.142
D1	Max	12.04	15.02	19.08	22.25	25.43	28.61	31.78	34.95	38.13
		.474	.591	.751	.876	1.001	1.126	1.251	1.376	1.501
D2	Max	35.34	38.51	41.69	44.86	49.64	51.62	54.79	57.94	61.12
		1.391	1.516	1.641	1.766	1.954	2.032	2.157	2.281	2.406
L1	Max	11.26	11.26	11.26	11.26	11.26	11.26	11.92	11.92	11.92
		.443	.443	.443	.443	.443	.443	.469	.469	.469
L2	Max	12.55	12.55	12.55	12.55	12.55	12.55	11.73	11.73	13.08
		.494	.494	.494	.494	.494	.494	.462	.462	.515
L3	Max	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67	2.67
		.105	.105	.105	.105	.105	.105	.105	.105	.105
D3	Max	15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
		.617	.734	.858	.984	1.112	1.218	1.345	1.468	1.593
D4	Max	6.96	10.46	13.36	16.53	19.71	22.40	25.56	28.75	31.93
		.274	.412	.526	.651	.776	.882	1.006	1.132	1.257
L4	Max	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30	11.30
		.445	.445	.445	.445	.445	.445	.445	.445	.445
L5	Max	14.44	14.44	14.44	14.44	14.44	14.44	13.62	13.62	15.22
		.569	.569	.569	.569	.569	.569	.536	.536	.599
D5	Max	15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
		.617	.734	.858	.984	1.112	1.218	1.345	1.468	1.593
D6	min	1.40	1.40	2.40	5.60	5.60	8.80	11.90	15.10	15.10
		.055	.055	.094	.220	.220	.346	.469	.594	.594
	Max	3.20	4.80	6.40	9.50	12.70	15.90	19.10	22.20	25.40
		.126	.189	.252	.374	.500	.626	.752	.874	1.000
F	Max	21.03	22.63	25.81	28.98	30.56	37.31	37.31	42.06	44.45
		.828	.891	1.016	1.141	1.203	1.469	1.469	1.656	1.750
L6	Max	22.22	22.22	22.22	28.57	28.57	28.57	28.57	31.75	31.75
		.875	.875	.875	1.125	1.125	1.125	1.125	1.250	1.250
L7	Max	30.54	30.54	30.54	36.44	36.44	36.44	35.62	39.22	38.82
		1.202	1.202	1.202	1.435	1.435	1.435	1.402	1.544	1.528
D7	Max	15.67	18.64	21.79	24.99	28.24	30.94	34.16	37.29	40.46
		.617	.734	.858	.984	1.112	1.218	1.345	1.468	1.593
D8	min	3.20	4.00	4.80	5.50	6.40	7.90	9.50	10.30	14.30
		.126	.157	.189	.217	.252	.311	.374	.406	.563
	Max	6.40	9.50	11.10	14.30	15.90	19.10	22.20	23.80	25.40
		.252	.374	.437	.563	.626	.752	.874	.937	1.000
L8	Max	35.32	35.32	37.30	41.67	46.04	46.45	48.43	51.98	54.78
		1.391	1.391	1.469	1.641	1.813	1.829	1.907	2.046	2.157
L9	Max	25.40	26.19	27.79	30.96	32.54	34.14	34.93	36.53	43.66
		1.000	1.031	1.094	1.219	1.281	1.344	1.375	1.438	1.719
L10	Max	38.10	38.10	40.08	44.45	48.82	49.23	50.39	53.94	58.34
		1.500	1.500	1.578	1.750	1.922	1.938	1.984	2.124	2.297

8T Series

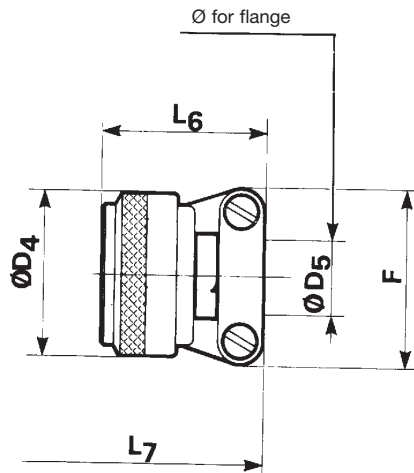


Backshells

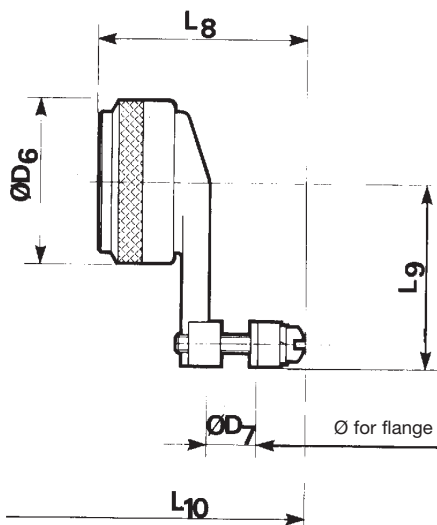
backnut type 01



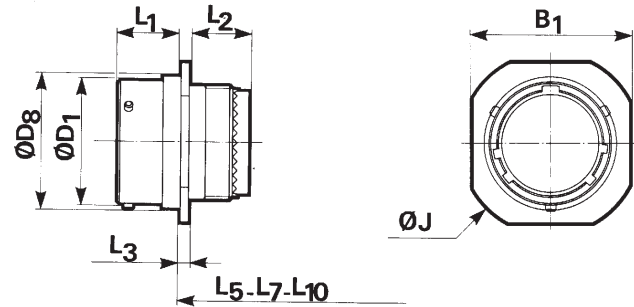
straight cable clamp type 02



elbow cable clamp type 03



Cable connecting receptacle type 1



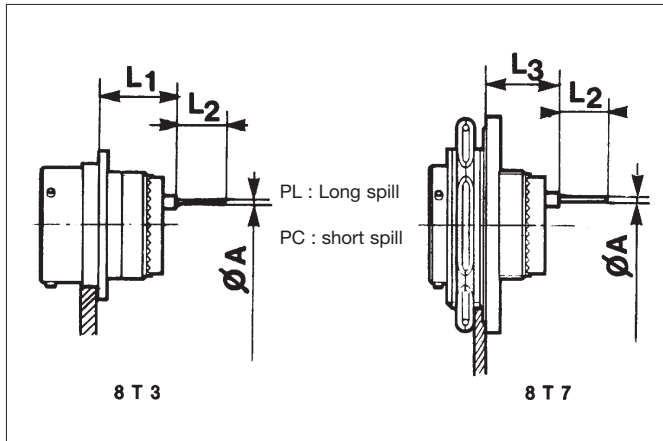
cable connecting receptacle backshell
assembly overall length

shell size		08	10	12	14	16	18	20	22	24
B1	Max	14.62 .576	18.92 .745	22.22 .875	25.62 1.009	27.82 1.095	31.35 1.234	34.62 1.363	38.02 1.497	42.02 1.654
D1	Max	12.04 .474	15.02 .591	19.08 .751	22.25 .876	25.43 1.001	28.61 1.126	31.78 1.251	34.95 1.376	38.13 1.501
D8	Max	13.89 .547	17.07 .672	21.44 .844	24.61 .969	27.79 1.094	30.96 1.219	34.14 1.344	37.31 1.469	40.49 1.594
J	Max	24.51 .965	27.60 1.087	30.04 1.183	32.43 1.277	34.82 1.371	37.21 1.465	40.36 1.589	43.56 1.715	46.68 1.838
L1	Max	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447
L2	Max	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	12.27 .483	14.00 .551
L3	Max	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069
D2	Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D3	Max	6.96 .274	10.46 .412	13.36 .526	16.53 .651	19.71 .776	22.40 .882	25.56 1.006	28.75 1.132	31.93 1.257
L4	Max	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445	11.30 .445
L5	Max	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	15.63 .615	17.61 .693
D4	Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D5	min	1.40 .055	1.40 .055	2.40 .094	5.60 1.141	5.60 .220	8.80 1.203	11.90 1.469	15.10 1.656	15.10 1.594
	Max	3.20 .126	4.80 .189	6.40 .252	9.50 .374	12.70 .500	15.90 .626	19.10 .752	22.20 .874	25.40 1.000
F	Max	21.03 .828	22.63 .891	25.81 1.016	28.98 1.141	30.56 1.203	37.31 1.469	37.31 1.469	42.06 1.656	44.45 1.750
L6	Max	22.22 .875	22.22 .875	22.22 .875	28.57 1.125	28.57 1.125	28.57 1.125	28.57 1.125	31.75 1.250	31.75 1.250
L7	Max	31.73 1.249	31.73 1.249	31.73 1.249	37.68 1.483	37.68 1.483	37.68 1.483	37.68 1.483	41.23 1.623	41.21 1.622
D6	Max	15.67 .617	18.64 .734	21.79 .858	24.99 .984	28.24 1.112	30.94 1.218	34.16 1.345	37.29 1.468	40.46 1.593
D7	min	3.20 .126	4.00 .157	4.80 .189	5.50 .217	6.40 .252	7.90 .311	9.50 .374	10.30 .406	14.30 .563
	Max	6.40 .252	9.50 .374	11.10 .437	14.30 .563	15.90 .626	19.10 .752	22.20 .874	23.80 .937	25.40 1.000
L8	Max	35.32 1.391	35.32 1.391	37.30 1.469	41.67 1.641	46.04 1.813	46.45 1.829	48.43 1.907	51.98 2.046	54.78 2.157
L9	Max	25.40 1.000	26.19 1.031	27.79 1.094	30.96 1.219	32.54 1.281	34.14 1.344	34.93 1.375	36.53 1.438	43.66 1.719
L10	Max	39.29 1.547	39.29 1.547	42.27 1.664	45.64 1.797	50.01 1.969	50.42 1.985	52.40 2.063	55.95 2.203	60.73 2.391

8T Series



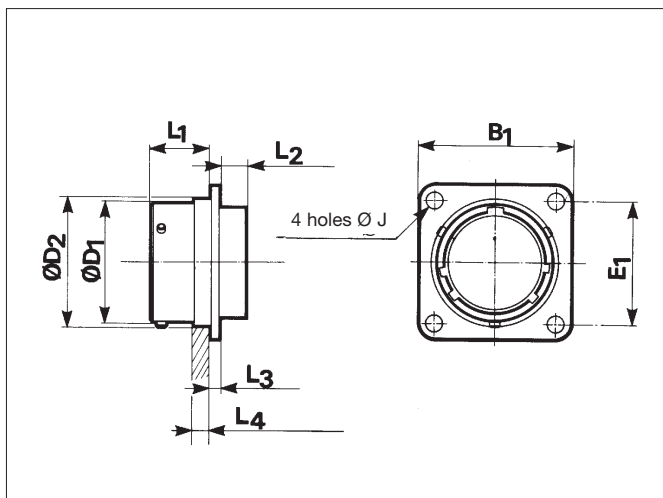
Contacts



Contact size	Contact type	Part numbers
22D	long spill male	8599-0720
	long spill female	8599-7707
	short spill male	8599-0730
20	short spill male	8599-0724
16	short spill male	8599-0726

shell size		08	10	12	14	16	18	20	22	24
A	#22D/#20	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028
	#16	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045
L1	male #22D PC/PL	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528
	female #22D PL	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528	13.40 .528
	male #20PC ; #16 PC	13.57 .534	13.57 .534	13.57 .534	13.57 .534	13.57 .534	13.57 .534	13.57 .534	13.57 .534	13.57 .534
L2	PL #22D	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335
	PC #22D	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157
	PC #20 / PC #16	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201
L3	male #22D PC/PL	13.61 .536	13.61 .536	13.61 .536	13.61 .536	13.61 .536	13.61 .536	12.95 .510	12.95 .510	12.95 .510
	female #22D PL	13.61 .536	13.61 .536	13.61 .536	13.61 .536	13.61 .536	13.61 .536	12.95 .510	12.95 .510	12.95 .510
	male #20 PC ; 16 PC	13.78 .543	13.78 .543	13.78 .543	13.78 .543	13.78 .543	13.78 .543	13.12 .517	13.12 .517	13.12 .517

Receptacle type 2



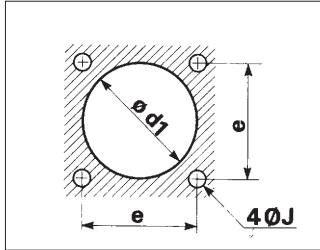
shell size	08	10	12	14	16	18	20	22	24
B1 Max	21.03 .828	24.24 .954	26.72 1.052	29.01 1.142	31.37 1.235	33.73 1.328	36.91 1.453	40.08 1.578	43.26 1.70
E1	15.10 .594	18.26 .719	20.62 .812	23.01 .906	24.61 .969	26.97 1.062	29.36 1.156	31.75 1.250	34.93 1.375
D1 Max	12.01 .473	15.00 .591	19.06 .750	22.23 .875	25.41 1.000	28.61 1.126	31.78 1.251	34.95 1.376	38.13 1.501
D2 Max	13.24 .521	16.19 .637	20.48 .806	23.70 .933	26.83 1.056	30.96 1.219	34.14 1.344	37.31 1.469	40.49 1.594
J Max	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.30 .130	3.99 .157
L1 Max	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447	11.35 .447
L2 Max	4.77 .188	4.77 .188	4.77 .188	4.77 .188	4.77 .188	4.77 .188	4.77 .188	4.77 .188	4.77 .188
L3 Max	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069	1.75 .069
L4 Max	3.71 .146	3.71 .146	3.71 .146	3.71 .146	3.71 .146	3.71 .146	4.27 .168	4.27 .168	4.27 .168

8T Series

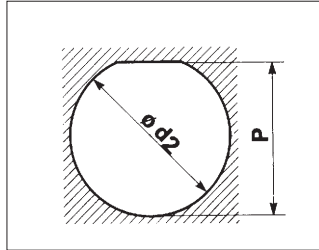


Panel cut-out

square flange receptacle

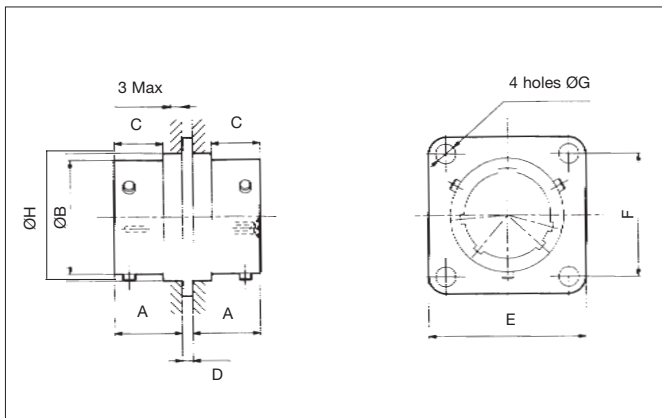


jam nut receptacle



shell size	08	10	12	14	16	18	20	22	24
d1 min	14.15 .557	17.32 .682	21.69 .854	24.87 .979	28.04 1.104	31.22 1.229	34.39 1.354	37.57 1.479	40.74 1.604
d2	22.46 .884	25.58 1.007	28.80 1.134	31.98 1.259	35.15 1.384	38.28 1.507	41.50 1.634	44.68 1.759	47.85 1.884
J	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.91 .154
e	15.09 .594	18.26 .719	20.62 .812	23.01 .906	24.61 .969	26.97 1.062	29.36 1.156	31.75 1.250	34.93 1.375
P	21.08 .830	24.26 .955	27.53 1.084	30.68 1.208	33.86 1.333	37.06 1.459	40.03 1.576	43.21 1.701	46.38 1.826

Through bulkhead receptacle



shell size	A Max	B Max	C Max	D Max	E Max	F	G Max	H Max
08	11.35 .447	12.04 .474	8.18 .322	1.75 .069	21.03 .828	15.09 .594	3.30 .130	13.89 .547
10	11.35 .447	15.02 .591	8.18 .322	1.75 .069	24.23 .954	18.26 .719	3.30 .130	17.07 .672
12	11.35 .447	19.08 .751	8.18 .322	1.75 .069	26.59 1.047	20.62 .812	3.30 .130	21.44 .844
14	11.35 .447	22.25 .876	8.18 .322	1.75 .069	28.98 1.141	23.01 .906	3.30 .130	24.61 .969
16	11.35 .447	25.43 1.001	8.18 .322	1.75 .069	31.34 1.234	24.61 .969	3.30 .130	27.79 1.094
18	11.35 .447	28.61 1.126	8.18 .322	1.75 .069	33.73 1.328	26.97 1.062	3.30 .130	30.96 1.219
20	11.35 .447	31.78 1.251	8.18 .322	1.75 .069	36.91 1.453	29.36 1.156	3.30 .130	34.14 1.344
22	11.35 .447	34.95 1.376	8.18 .322	1.75 .069	40.08 1.578	31.75 1.250	3.30 .130	37.31 1.469
24	11.35 .447	38.13 1.501	8.18 .322	1.75 .069	43.26 1.703	34.92 1.375	3.98 .157	40.49 1.594

Ordering information

basic series	SN1738	04	T	••	••	PS	N	7
shell type	04 - through bulkhead receptacle							
class	T - sealed							
shell size	08-10-12-14-16-18-20-22-24							
contact layout	- see standard layout for 8T Series p 120							
contact type	PS - male/female contact							
polarization	N - normal							
plating	7 - olive green cadmium							

Accessories

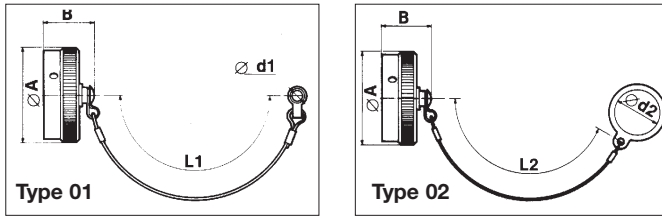
protective caps

basic series		8T	E	01	G	14
cap type	E - cap for receptacle F - cap for plug					
fixing type	cap for receptacle 01 - plastic sleeved metal cord with eyelet 02 - plastic sleeved metal cord with ring		cap for plug 01 - plastic sleeved metal cord with eyelet			
plating	B - olive green cadmium (MIL-C 38999) F - nickel					
shell size	08-10-12-14-16-18-20-22-24					

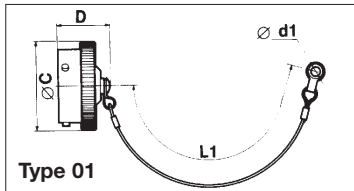
8T Series



Protective caps for receptacles

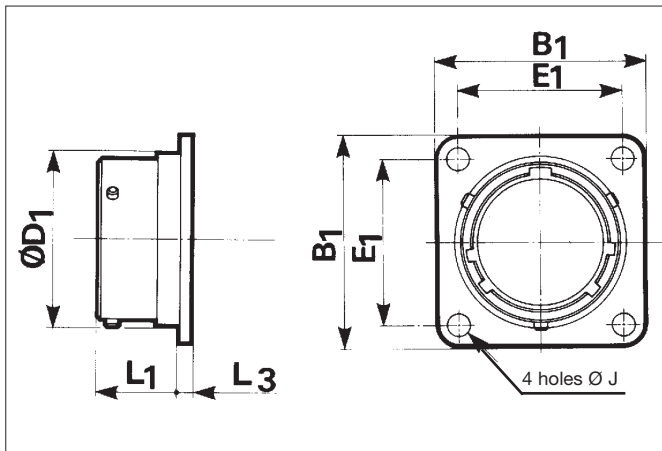


Protective caps for plugs



shell size	A Max	B Max	C Max	D Max	d1 min	d2 min	L1	L2
08	19.05 .750	20.83 .820	18.29 .720	20.83 .820	3.12 .123	22.61 .890	76.20 3.000	76.20 3.000
10	21.82 .859	20.83 .820	21.59 .850	20.83 .820	3.12 .123	25.65 1.010	76.20 3.000	76.20 3.000
12	26.19 1.031	20.83 .820	25.40 1.000	20.83 .820	3.12 .123	28.96 1.140	88.90 3.500	88.90 3.500
14	29.36 1.156	20.83 .820	28.70 1.130	20.83 .820	3.12 .123	32.00 1.260	88.90 3.500	88.90 3.500
16	32.54 1.281	20.83 .820	31.75 1.250	20.83 .820	3.12 .123	35.31 1.390	88.90 3.500	88.90 3.500
18	35.71 1.406	20.83 .820	35.05 1.380	20.83 .820	3.12 .123	38.35 1.510	88.90 3.500	88.90 3.500
20	38.89 1.531	20.83 .820	38.10 1.500	20.83 .820	3.12 .123	41.66 1.640	101.60 4.000	101.60 4.000
22	41.68 1.641	20.83 .820	41.40 1.630	20.83 .820	3.12 .123	44.70 1.760	101.60 4.000	101.60 4.000
24	44.86 1.766	20.83 .820	44.45 1.750	20.83 .820	3.53 .139	48.01 1.890	101.60 4.000	101.60 4.000

Dummy receptacle



shell size	part number	L1 Max	L3 Max	D1 Max	B1 Max	E1	J
08	8T3-08•UR	11.35 .447	1.75 .069	12.04 .474	21.03 .828	15.09 .594	3.30 .130
10	8T3-10•UR	11.35 .447	1.75 .069	15.02 .591	24.23 .954	18.26 .719	3.30 .130
12	8T3-12•UR	11.35 .447	1.75 .069	19.08 .751	26.59 1.047	20.62 .812	3.30 .130
14	8T3-14•UR	11.35 .447	1.75 .069	22.25 .876	28.98 1.141	23.01 .906	3.30 .130
16	8T3-16•UR	11.35 .447	1.75 .069	25.43 1.001	31.34 1.234	24.61 .969	3.30 .130
18	8T3-18•UR	11.35 .447	1.75 .069	28.61 1.126	33.73 1.328	26.97 1.062	3.30 .130
20	8T3-20•UR	11.35 .447	1.75 .069	31.78 1.251	36.91 1.453	29.36 1.156	3.30 .130
22	8T3-22•UR	11.35 .447	1.75 .069	34.95 1.376	40.08 1.578	31.75 1.250	3.30 .130
24	8T3-24•UR	11.35 .447	1.75 .069	38.13 1.501	43.26 1.703	34.93 1.375	3.99 .157

• : G olive green cadmium
F nickel

Gaskets

Shell size	Part numbers	
	gasket for receptacle type 3 (ordered separately)	O. ring for receptacle type 7
08	8525-1431	MS9068-022
10	8525-1432	MS9068-024
12	8525-1433	MS9068-026
14	8525-1434	MS9068-028
16	8525-1435	MS9068-029
18	8525-1436	MS9068-030
20	8525-1437	MS9068-031
22	8525-1438	MS9068-032
24	8525-1439	MS9068-033

Plastic protective caps

Shell size	Part numbers	
	cap for receptacles	cap for plug
08	8500-5585A	8500-5594
10	8500-5586A	71120
12	8500-5587A	8500-5596
14	8500-5588A	8500-5597
16	8500-5589A	8500-5598
18	8500-5590A	8500-5589
20	8500-5591A	8500-5600
22	8500-5592A	8500-5601
24	8500-5593A	8500-5602

Reusable fixing plate

Two, three or four-holes self-locking fixing-plates are available at SHTP. See page 126.



- High density connector from 1 to 128 contacts
- Sizes 22D, 20, 16, 12, # 16 coax and # 8 triax
- A quick screw coupling with anti-decoupling mechanism
- 100 % scoop proof
- An EMI/RFI reinforced shielding with grounding fingers

- Shell : aluminum alloy
- Plating :
 - olive green cadmium (W)
 - nickel (F)
- Insulator : thermoplastic or thermoset
- Grommet and seal : silicone elastomer
- Contact : copper alloy
- Plating : gold over nickel
- Endurance :
 - 500 mating/unmating operations
- Shock : high impact as per MIL-S 901
- Vibration :
 - sine 60 g with temperature cycling and simulated accessory (36 hours)
 - random :
 - 44.1 grms at high temperature
 - 49.5 grms at ambient temperature
- Contact retention (mini force in N) :
 - size 22 D : 45 N - size 20 : 67 N
 - size 16 : 111 N - size 12 : 111 N
 - size 8 : 111 N

Service	sea level	at 21000 m
M	1300	800
N	1000	600
I	1800	1000
II	2300	1000

- Contact resistance :
resistance of wire included in measurement :
 - size 22 D : 14.6 mΩ - size 16 : 3.8 mΩ
 - size 20 : 7.3 mΩ - size 12 : 1.7 mΩ
 - size 8 : 3 mΩ
- Insulation resistance : ≥ 5000 MΩ (at 500 Vdc)
- Contact rating :
 - size 22 D : 5 A - size 16 : 13 A
 - size 20 : 7.5 A - size 12 : 23 A
 - size 8 : 45 A
- Shell continuity : - olive green plating : 2.5 mΩ
- nickel plating : 1 mΩ
- Shielding : - 65 db to 10 GHz (F)
- 50 db to 10 GHz (W)
- 85 db to 1 GHz (F and W)
- Triaxial contact : # 8
 - bandwidth : 0 – 20 MHz
 - voltage rating : 500 Vac maxi.
125 Vac at 21000 m
 - voltage drop :
inner and middle contact ≤ 55 mV under 1A
outer contact ≤ 75 mV under 12A

- Temperature range :
 - cadmium plating (W) -65°C +175°C
 - nickel plating (F) -65°C +200°C
- Sealing : mated connectors meet altitude immersion requirements of MIL-C 38999
- Salt spray to : MIL-STD 1344 method 1001
 - 500 hours (version W)
 - 48 hours (version F)
- Damp heat : MIL-C 38999 - 10 cycles (24 hours)

- To MIL-C 38999 standard :
- Gasoline : JP5 (OTAN F44)
- Mineral hydraulic fluid : MIL-H 5606 (OTAN H515)
- Synthetic hydraulic fluid : skydrol 500 B4, LD4 (SAE AS 1241)
- Mineral lubricating : MIL-L 7870A (OTAN 0142)
- Synthetic lubricating : MIL-L 23699 (OTAN 0156), MIL-L 7808
- Cleaning fluid : MIL-C 25769 diluted
- De-icing fluid : MIL-A 8243
- Extinguishing fluid : chlorobromethane
- Cooling fluid : Coolanol

basic series		8 D	0	-	11	W	35	P	N	***
shell type	0 - square flange receptacle 7 - jam nut receptacle 5 - plug with RFI shielding									
designator	- - connectors with crimp contacts L - receptacle with long spill (male and female # 22D) C - receptacle with short spill (male and female # 22D - # 20 - # 16) S - receptacle with specific spill (male and female # 22D) W - receptacle with male contacts size 22D for wire wrap (3 wraps) T - receptacle with male contacts size 20 for wire wrap (2 wraps)									
shell size	09-11-13-15-17-19-21-23-25									
plating	W - olive green cadmium F - nickel									
contact layout	- see table p 120									
contact type	P - male S - female		A - male connector supplied less contact or with specific contacts B - female connector supplied less contact or with specific contacts							
polarization	N- normal A-B-C-D-E - see table p 109									
	046 tinned straight spill									

8D Aluminum Series



MIL-C 38999 part numbers

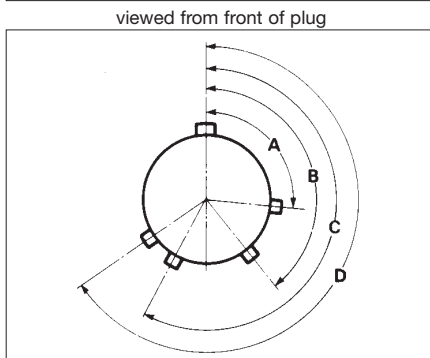
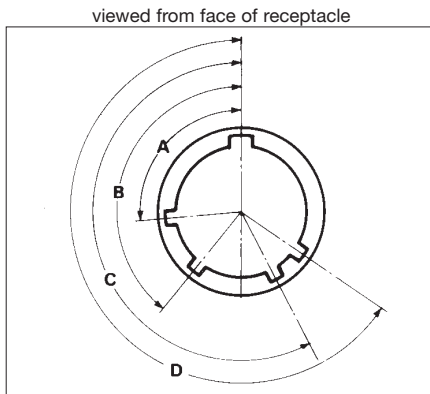
basic series		D 38999/		20	W	B	35	P	N
shell type	20	- square flange receptacle							
	24	- jam nut receptacle							
	26	- plug with RFI shielding							
plating	W	- olive green cadmium							
	F	- nickel							
shell size	A to J								
	09	11	13	15	17	19	21	23	25
	A	B	C	D	E	F	G	H	J
contact layout		- see table p 109							
contact type	P	- male							
	S	- female							
polarization	N	- normal							
	A-B-C-D-E - see table below								
contact type		A - male connector supplied less contact or with specific contacts							
		B - female connector supplied less contact or with specific contacts							

Backshells

basic series										8D	102	B	02
shell size	09	11	13	15	17	19	21	23	25				
index number	101	102	103	104	105	106	107	108	109				
plating	B - olive green cadmium F - nickel												
backshell type	01 - backnut 02 - straight cable clamp 03 - elbow cable clamp 13 - backshell for heat shrink sleeving												

NOTE : Backshells will be marked with supplier's part number. Labels will bear both part numbers : supplier's and Souriau's.

Polarization



shell size	MS shell size	angles	N	A	B	C	D	E
9	A	A°	105	102	80	35	64	91
		B°	140	132	118	140	155	131
		C°	215	248	230	205	234	197
		D°	265	320	312	275	304	240
11	B	A°	95	113	90	53	119	51
		B°	141	156	145	156	146	141
		C°	208	182	195	220	176	184
		D°	236	292	252	255	298	242
13	C	A°	95	113	90	53	119	51
		B°	141	156	145	156	146	141
		C°	208	182	195	220	176	184
		D°	236	292	252	255	298	242
15	D	A°	95	113	90	53	119	51
		B°	141	156	145	156	146	141
		C°	208	182	195	220	176	184
		D°	236	292	252	255	298	242
17	E	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272
19	F	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272
21	G	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272
23	H	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272
25	J	A°	80	135	49	66	62	79
		B°	142	170	169	140	145	153
		C°	196	200	200	200	180	197
		D°	293	310	244	257	280	272

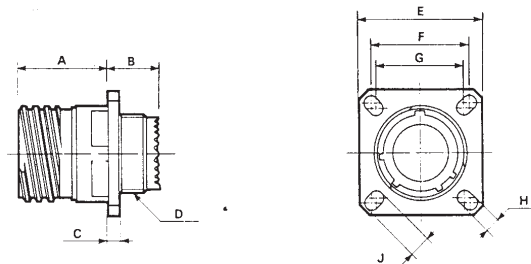
Note : Polarization A.B.C.D.E. consult us.

8D Aluminum Series



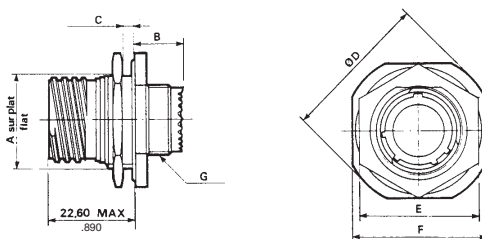
Dimensions

Receptacle type 0



shell size	MS shell size	A Max	B Max	C Max	D Thread	E	F	G	H	J
9	A	20.90 .823	10.60 .417	2.50 .098	M 12x 1-6g	23.80 .937	18.26 .719	15.09 .594	3.25 .128	5.49 .216
11	B	20.90 .823	10.60 .417	2.50 .098	M 15 x 1-6g	26.20 1.031	20.62 .812	18.26 .719	3.25 .128	4.93 .194
13	C	20.90 .823	10.60 .417	2.50 .098	M 18 x 1-6g	28.60 1.126	23.01 .906	20.62 .812	3.25 .128	4.93 .194
15	D	20.90 .823	10.60 .417	2.50 .098	M 22x 1-6g	31.00 1.220	24.61 .969	23.01 .906	3.25 .128	4.39 .173
17	E	20.90 .823	10.60 .417	2.50 .098	M 25 x 1 -6g	33.30 1.311	26.97 1.062	24.61 .969	3.25 .128	4.93 .194
19	F	20.90 .823	10.60 .417	2.50 .098	M 28 x 1-6g	36.50 1.437	29.36 1.156	26.97 1.062	3.25 .128	4.93 .194
21	G	20.10 .791	11.40 .449	3.20 .126	M 31 x 1-6g	39.70 1.563	31.75 1.250	29.36 1.156	3.25 .128	4.93 .194
23	H	20.10 .791	11.40 .449	3.20 .126	M 34x 1-6g	42.90 1.689	34.93 1.375	31.75 1.250	3.91 .154	6.15 .242
25	J	20.10 .791	11.40 .449	3.20 .126	M 37x 1-6g	46.00 1.811	38.10 1.500	34.93 1.375	3.91 .154	6.15 .242

Receptacle type 7



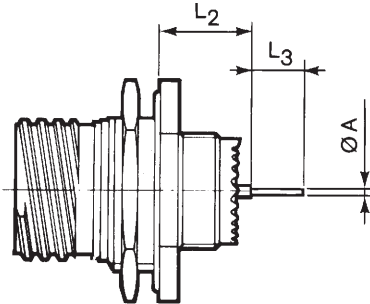
shell size	MS shell size	A	B Max	C Max	D Max	E Max	F	G Thread
9	A	16.53 .651	9.90 .390	3.20 .126	30.50 .126	24.00 .945	27.00 1.063	M 12x1-6g
11	B	19.07 .751	9.90 .390	3.20 .126	35.20 .126	27.00 1.063	31.80 1.252	M 15x 1-6g
13	C	23.82 .938	9.90 .390	3.20 .126	38.40 .126	32.00 1.260	34.90 1.374	M 18x1-6g
15	D	26.97 1.062	9.90 .390	3.20 .126	41.60 .126	36.00 1.417	38.10 1.500	M 22x1-6g
17	E	30.15 1.187	9.90 .390	3.20 .126	44.80 .126	37.00 1.457	41.30 1.626	M 25x1-6g
19	F	33.32 1.312	9.90 .390	3.20 .126	49.50 .126	41.00 1.614	46.00 1.811	M 28x1-6g
21	G	36.50 1.437	9.90 .390	3.20 .126	52.70 .126	46.00 1.811	49.20 1.937	M 31x1-6g
23	H	39.67 1.562	9.90 .390	3.20 .126	55.90 .126	50.00 1.969	52.40 2.063	M 34x1-6g
25	J	42.85 1.687	9.90 .390	3.20 .126	59.00 .126	51.23 2.017	55.60 2.189	M 37x1-6g

8D Aluminum Series

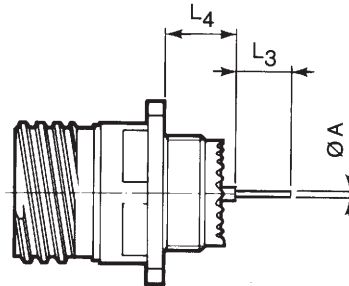


Receptacle with straight spill contacts

Receptacle type 7



Receptacle type 0



Shell size		9	11	13	15	17	19	21	23	25
A	# 22D	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028	0.70 .028
	# 20	0.50 .020	0.50 .020	0.50 .020	0.50 .020	0.50 .020	0.50 .020	0.50 .020	0.50 .020	0.50 .020
	# 16	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045	1.15 .045
L2CM	#22D	min .414	10.52 .414	10.34 .407	10.34 .407	10.34 .407	10.34 .407	10.34 .407	10.34 .407	10.34 .407
		Max .451	11.46 .451	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444
L2CF	#22D	min .401	10.19 .401	10.01 .394	10.01 .394	10.01 .394	10.01 .394	10.01 .394	10.01 .394	10.01 .394
		Max .451	11.46 .451	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444	11.28 .444
L2CM	#20	min .421	10.69 .421	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414
		Max .458	11.63 .458	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451
L2CF	#20	min .421	10.69 .421	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414
		Max .458	11.63 .458	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451
L2CM	#16	min .421	10.69 .421	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414
		Max .458	11.63 .458	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451
L2CF	#16	min .421	10.69 .421	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414	10.51 .414
		Max .458	11.63 .458	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451	11.45 .451
L3	PL #22D	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335	8.50 .335
	PC #22D	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157	4.00 .157
	PC #20	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201
	PC #16	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201	5.10 .201
L4CM	#22D	min .373	9.48 .373	9.48 .373	9.48 .373	9.48 .373	9.48 .373	9.59 .378	9.59 .378	9.59 .378
		Max .417	10.58 .417	10.58 .417	10.58 .417	10.58 .417	10.58 .417	10.69 .421	10.69 .421	10.69 .421
L4CF	#22D	min .360	9.15 .360	9.15 .360	9.15 .360	9.15 .360	9.15 .360	9.26 .365	9.26 .365	9.26 .365
		Max .417	10.58 .417	10.58 .417	10.58 .417	10.58 .417	10.58 .417	10.69 .421	10.69 .421	10.69 .421
L4CM	#20	min .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.76 .384	9.76 .384	9.76 .384
		Max .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.86 .428	10.86 .428	10.86 .428
L4CF	#20	min .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.76 .384	9.76 .384	9.76 .384
		Max .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.86 .428	10.86 .428	10.86 .428
L4CM	#16	min .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.76 .384	9.76 .384	9.76 .384
		Max .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.86 .428	10.86 .428	10.86 .428
L4CF	#16	min .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.65 .380	9.76 .384	9.76 .384	9.76 .384
		Max .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.75 .423	10.86 .428	10.86 .428	10.86 .428

CM : male contact

CF : female contact

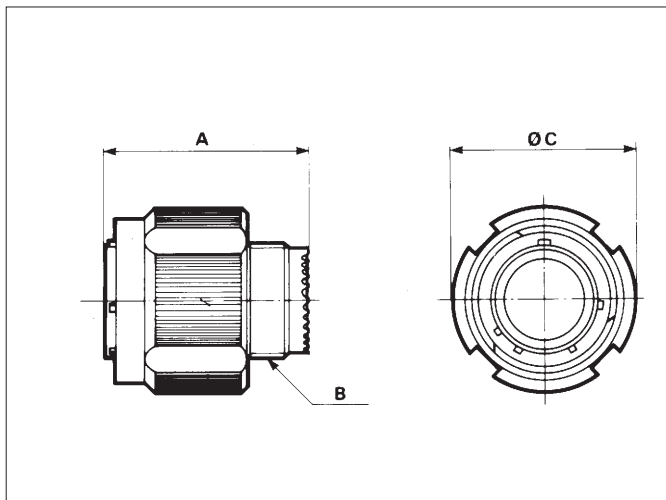
PL : long spill

PC : short spill

8D Aluminum Series

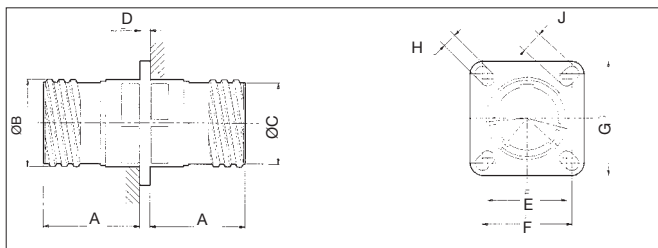


Plug type 5



shell size	MS shell size	A Max	B Thread	C Max
9	A	31.00 1.220	M 12 x 1 - 6g	21.80 .858
11	B	31.00 1.220	M 15 x 1 - 6g	25.00 .984
13	C	31.00 1.220	M 18 x 1 - 6g	29.40 1.157
15	D	31.00 1.220	M 22 x 1 - 6g	32.50 1.280
17	E	31.00 1.220	M 25 x 1 - 6g	35.70 1.406
19	F	31.00 1.220	M 28 x 1 - 6g	38.50 1.516
21	G	31.00 1.220	M 31 x 1 - 6g	41.70 1.642
23	H	31.00 1.220	M 34 x 1 - 6g	44.90 1.768
25	J	31.00 1.220	M 37 x 1 - 6g	48.00 1.890

Through bulkhead receptacle (Special SHTP)

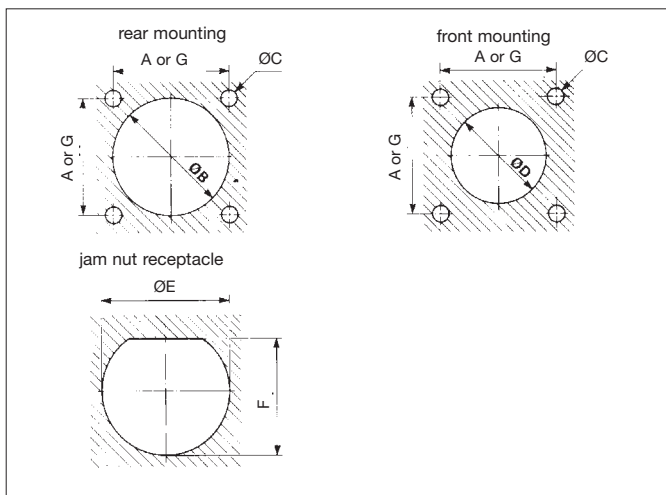


shell size	A Max	B	C	D Max	E	F	G	H	J
9	20.90 .823	15.72 .619	14.43 .568	2.26 .089	15.09 .594	18.26 .719	23.80 .937	3.25 .128	5.49 .216
11	20.90 .823	18.90 .744	17.60 .693	2.26 .089	18.26 .719	20.62 .812	26.20 1.031	3.25 .128	4.93 .194
13	20.90 .823	22.07 .869	20.78 .818	2.26 .089	20.62 .812	23.01 .906	28.60 1.126	3.25 .128	4.93 .194
15	20.90 .823	25.25 .994	23.95 .943	2.26 .089	23.01 .906	24.61 .969	31.00 1.220	3.25 .128	4.39 .173
17	20.90 .823	30.00 1.181	28.35 1.116	2.26 .089	24.61 .969	26.97 1.062	33.30 1.311	3.25 .128	4.93 .194
19	20.90 .823	31.57 1.243	29.95 1.179	2.26 .089	26.97 1.062	29.36 1.156	36.50 1.437	3.25 .128	4.93 .194
21	20.10 .791	34.75 1.368	33.12 1.304	2.97 .117	29.36 1.156	31.75 1.250	39.70 1.563	3.25 .128	4.93 .194
23	20.10 .791	37.92 1.193	36.30 1.429	2.97 .117	31.75 1.250	34.93 1.375	42.90 1.689	3.91 .154	6.15 .242
25	20.10 .791	41.10 1.678	39.47 1.554	2.97 .117	34.93 1.375	38.10 1.500	46.00 1.811	3.91 .154	6.15 .242

Part number

basic series **SN1843-13 W •• PS N**
 shell size **09-11-13-15-17-19-21-23-25**
 plating **W** - olive green cadmium
 contact layout please consult us
 contact type male/female contact
 polarization

Panel cut-out



shell size	9 A	11 B	13 C	15 D	17 E	19 F	21 G	23 H	25 J
A	18.26 .719	20.62 .812	23.01 .906	24.61 .969	26.97 1.062	29.36 1.156	31.75 1.250	34.93 1.375	38.10 1.500
G	15.09 .594	18.26 .719	20.62 .812	23.01 .906	24.61 .969	26.97 1.062	29.36 1.156	31.75 1.250	34.94 1.376
B min	16.66 .656	20.22 .796	23.42 .922	26.59 1.047	30.96 1.219	32.94 1.297	36.12 1.422	39.29 1.547	42.47 1.672
C	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.25 .128	3.91 .154	3.91 .154
D min	13.11 .516	15.88 .625	19.05 .750	23.01 .906	25.81 1.016	28.98 1.141	32.16 1.266	34.93 1.375	37.69 1.484
E	17.78 .700	20.96 .825	25.65 1.010	28.83 1.135	32.01 1.260	35.18 1.385	38.35 1.510	41.53 1.635	44.70 1.760
F	17.02 .670	19.59 .771	24.26 .955	27.56 1.085	30.73 1.210	33.91 1.335	37.08 1.460	40.26 1.585	43.43 1.710

Maxi thickness of panel mounting for square flange receptacle - type 0
 - front mounting : 3.2 mm Max.
 - rear mounting : 2.5 mm Max.