

# 8LT-8D-8ST-8T



## Contact layouts for 8LT-8D-8ST-8T - viewed from front face of male insulator

shell size		8LT-8D		8ST-8T	
09	08	35 6 # 22D 	8LT 8D 8ST 8T	98 3 # 20 	8LT 8D 8ST
11	10	35 13 # 22D 	8LT 8D 8ST 8T	98 6 # 20 	8LT 8D 8ST
13	12	35 22 # 22D 	8LT 8D 8ST 8T	98 10 # 20 	8LT 8D 8ST
15	14	35 37 # 22D 	8LT 8D 8ST 8T	19 19 # 20 	8LT 8D 8ST
17	16	35 55 # 22D 	8LT 8D 8ST 8T	26 26 # 20 	8LT 8D 8ST
		06 6 # 12 	8LT 8D 8ST 8T	08 8 # 16 	8LT 8D 8ST 8T
19	18	35 66 # 22D 	8LT 8D 8ST 8T	32 32 # 20 	8LT 8D 8ST
		11 11 # 16 	8LT 8D 8ST		
21	20	35 79 # 22D 	8LT 8D 8ST 8T	41 41 # 20 	8LT 8D 8ST 8T
		16 16 # 16 	8LT 8D 8ST 8T	11 11 # 12 	8LT 8D 8ST 8T
23	22	75 4 # 8 	8LT 8D 8ST	39 37 # 20 2 # 16 	8LT 8D 8ST
		35 100 # 22D 	8LT 8D 8ST 8T	53 53 # 20 	8LT 8D 8ST
25	24	21 21 # 16 	8LT 8D 8ST		
		35 128 # 22D 	8LT 8D 8ST 8T	61 61 # 20 	8LT 8D 8ST 8T
25	24	46 40 # 20 4 # 16 - 2 # 8 	8LT 8D 8ST	19 19 # 12 	8LT 8D 8ST
		29 29 # 16 	8LT 8D 8ST 8T	43 23 # 20 20 # 16 	8LT 8D 8ST 8T
		24 12 # 16 12 # 12 	8LT 8D 8ST 8T	08 8 # 8 triaxial 	8D
		04 48 # 20 8 # 16 	8D		

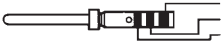
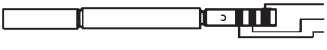

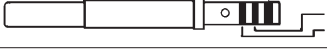

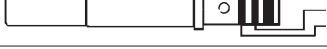





- size 22 contacts
- size 20 contacts
- size 16 contacts
- size 12 contacts
- size 8 triaxial contacts
- size 8 coaxial contacts
- \* not QPL approved to date
- contact layouts available with receptacle type 2

Please consult us for the composite version


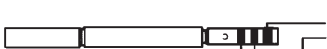

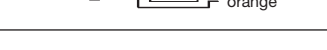
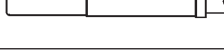



# 8LT-8D-8ST-8T



## Standard contacts for 8LT-8D-8ST

contact size	contact type	standard contacts		MIL - C contacts	
		part numbers without colour code	part numbers	profile and colour code	
# 22D	male	8599-0702	M39029/58.360		orange blue black
	female	8599-0706	M39029/56.348		orange yellow grey
# 20	male	8599-0703	M39029/58.363		orange blue orange
	female	8599-0707	M39029/56.351		orange green brown
# 16	male	8599-0704	M39029/58.364		orange blue yellow
	female	8599-0708	M39029/56.352		orange green red
# 12	male	8599-0705	M39029/58.365		orange blue green
	female	8599-0709	M39029/56.353		orange green orange
# 8	male	8599-7740	-		
	female	8599-7741	-		
	boot	8590-4571	-		

## Standard contacts for 8T

contact size	contact type	standard contacts		MIL - C contacts	
		part numbers without colour code	part numbers	profile and colour code	
# 22D	male	8599-0702	M39029/58.360		orange blue black
	female	8599-0710	M39029/57.354		orange green yellow
# 20	male	8599-0703	M39029/58.363		orange blue orange
	female	8599-0711	M39029/57.357		orange green purple
# 16	male	8599-0704	M39029/58.364		orange blue yellow
	female	8599-0712	M39029/57.358		orange green grey
# 12	male	8599-0705	M39029/58.365		orange blue green
	female	8599-0713	M39029/57.359		orange green white

NOTES : (1) Boots for sealing to be ordered separately

# 8LT-8D-8ST-8T



## Coaxial and triaxial contacts for 8LT-8D-8ST

contact size	contact type	standard contacts		MIL - C contacts	
		part numbers without colour code	part numbers	profile and colour code	
# 16 coaxial contact	male	8599-0916			yellow red yellow
	female	8599-0920			yellow red grey
# 12 coaxial contact	male	8599-0980 <sup>(2)</sup> (SN 1891K-0980) <sup>(2)</sup>	M39029/28.211 <sup>(2)</sup>		red brown brown
	female	8599-0990 <sup>(2)</sup> (SN 1891K-0990) <sup>(2)</sup>	M39029/75.416 <sup>(2)</sup>		yellow brown blue
# 8 coaxial contact	male	SN 1891K-0810	M39029/59.366		
	female	SN 1891K-0820	M39029/60.367		
	boot	8590-4571 <sup>(2)</sup>	-		
# 8 coaxial contact	male	SN 1891K-0811 <sup>(2)</sup>	-		
	female	SN 1891K-0821 <sup>(2)</sup>	-		
	boot	8977-343A <sup>(1) (2)</sup>	-		
# 8 triaxial contact	male	8599-0988	M39029/90.529		
	female	8599-0998	M39029/91.530		
	boot	8590-4571 <sup>(1)</sup>	-		

## Thermocouple contacts for 8LT-8D-8ST

contact size	contact type	standard contacts		MIL - C contacts	
		part numbers without colour code	part numbers	profile and colour code	
# 20 chromel	male	8599-0749 yellow dot	8599-0949		yellow purple blue
	female	8599-0753 yellow dot	8599-0953		yellow grey grey
# 20 alumel	male	8599-0761 black dot	8599-0961		yellow purple green
	female	8599-0765 black dot	8599-0965		yellow grey purple

NOTES : (1) Boots for sealing to be ordered separately - (2) Please consult us.

# 8LT-8D-8ST-8T



## Straight spill contacts for 8LT - 8D

contact size	contact type	part number	profile
# 22D	male long spill	8599-0720	
	male short spill	8599-0730	
	male specific spill	8599-0796	
	female long spill	8599-0721	
	female short spill	8599-0731	
	female specific spill	8599-0797	
# 20	male short spill	8599-0724	
	female short spill	8599-0725	
# 16	male short spill	8599-0726	
	male short spill	8599-0727	
# 16 coaxial contact	male	SN1891K16-050M (2)	

(2) Please consult us.

## Wire wrap for 8D

contact size	contact type	part number	profile
# 22D	male	8599-0790	
# 22D	male	8599-0791	

## Dimensions - crimp contacts

contact size	contact type	contact Ø	conductor section				external Ø over insulation	
			AWG		mm		min	Max.
# 22D	male/female	0.76	28	22	0.095	0.34	0.76	1.37
# 20	male/female	1	24	20	0.21	0.60	1.02	2.11
# 16	male/female	1.6	20	16	0.60	1.34	1.65	2.77
# 12	male/female	2.4	14	12	1.91	3.18	2.46	3.61
# 8	male/female	3.64	-	8	-	8.98	4.50	6.50
# 16 coaxial contact	male/female	1.6	RG 174 - RG 179 - RG 316				1.65	2.60
# 12 coaxial contact	male/female	2.4	RG 174 - RG 179 - RG 316				2.40	2.60
# 8 coaxial contact	male/female	5.5	RG 188A/U				-	2.80
# 8 (1) coaxial contact	male/female	5.5	NRFC - 50 - COAX 3 - S5Q 21 653				4.6	4.80
# 8 triaxial contact	male/female	5.5	MIL-C 17/176.00002 - FILECA F, 2703/14 RAYCHEM CHEMINAX 10612 - FILOTEX M 17/176.00002				3.15	3.40

Note : (1) SN1891K - 0811/0821 : please consult us.

## straight spill contacts

contact size	contact type	contact Ø (mm)	spill Ø (mm)
# 22D	male long spill	0.76	0.70
	male short spill	0.76	0.70
	female long spill	0.76	0.70
	female short spill	0.76	0.70
	male specif spill	0.76	0.50
	female specif spill	0.76	0.50
# 20	male short spill	1	0.70
	female short spill	1	0.70
# 16	male short spill	1.6	1
	female short spill	1.6	1

## wire wrap contact

contact size	contact type	contact Ø	(mm)
# 22D	male	0.76	0.86
# 22	male	1	0.86

# 8LT-8D-8ST-8T



## Tooling for 8LT-8D-8ST-8T crimping

contact size	wire size		type	part number plier M22520 / 1-01 (FCI Souriau 8365)		part number plier M22520 / 2-01 (FCI Souriau 8476-01)	
				part number turret		part number locator	
	mm <sup>2</sup>	AWG		NORME/SPEC	FCI Souriau	NORME/SPEC	FCI Souriau
22D	0.38	22	male	—	—	M22520/2-09	8476-09
	0.21	24					
20	0.15	26	female	—	—	M22520/2-07	8476-07
	0.095	28					
	0.60	20	male	M22520/1-04	8365-04	M22520/2-10	8476-10
	0.38	22					
0.21	24	female	M22520/1-04	8365-04	M22520/2-10	8476-10	
1.34	16		male	M22520/1-04	8365-04	—	—
0.93	18	female		M22520/1-04	8365-04	—	—
0.60	20		male	M22520/1-04	8365-04	—	—
12	3.18	12		female	M22520/1-04	8365-04	—
	1.91	14					
8	8.98	8	male		JAT M810G	—	JAT T810G
			female		JAT M810G	—	JAT T810G

### Coaxial contact # 16

contact type	pliers	locators
inner contact	M22520/2.01	M22520/2.35
outer contact	M22520/4.01	M22520/4.02

### Coaxial contact # 8

(SN 1891K-0810 and SN 1891K-0820)

contact type	pliers	locators	stripping tool
inner contact	M22520/2.01	SN 1891 K 101	SN 1891 K 102
outer contact	M22520/5.01	Y 248	SN 1891 K 102

### Coaxial contact # 8

(SN 1891K-0811 and SN 1891K-0821)

contact type	pliers	locators	stripping tool
inner contact	M22520/2.01	SN 1891 K 101	(1)
outer contact	(1)	(1)	(1)

### Coaxial contact # 12

(SN 1891K-0980 and SN 1891K-0990)

contact type	pliers	locators
outer contact (male and female)	M22520/5.01	8976-730
inner contact (male)	M22520/2.01	8976-720
inner contact (female)	M22520/2.01	8972-710

### Triaxial contact # 8

(8599-0988 and 8599-0998)

contact type	pliers	locators
middle contact	M22520/2.01	M22520/2.37
inner contact	M22520/2.01	SN 1767 K 100
ferrule	M22520/5.01	Y631

(1) Please consult us.

# 8LT-8D-8ST-8T



## Insertion and extraction of wired contacts for 8LT-8D-8ST-8T

contact size	part numbers		colour	
	SPEC	FCI Souriau	insert.	extract
# 22D	M81969/14-01	-	green	white
# 20	M81969/14-10	-	red	white
# 16 standard & coaxial	M81969/14-03	-	blue	white
# 12 standard & coaxial	M81969/14-04	-	yellow	white
# 8	-	-	manual insertion	steel
# 8 coaxial & triaxial	-	8660-197	manual insertion	steel

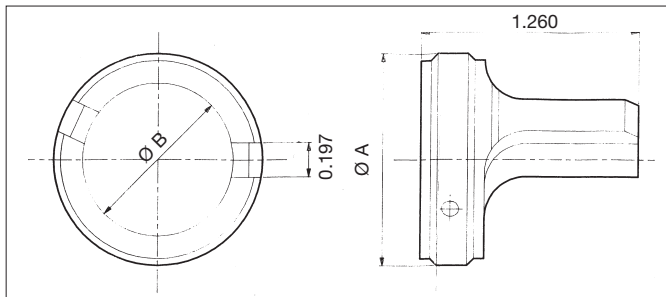
## Filler plugs

contact size	part numbers		Colour
	SPEC	FCI Souriau	
# 22D	MS27488-22	8660-212	black
# 20	MS27488-20	8522-389A	red
# 16 standard & coaxial	MS27488-16	8522-390A	blue
# 12 standard & coaxial	MS27488-12	8522-391A	yellow

These filler plugs are installed at the rear of unwired contacts to maintain connector sealing.

Dummy contact for cavity of triaxial and coaxial contacts # 8 : 8599-0308.

## Coupling ring adapter for 8T-8LT (SHTP)



basic series	<b>SN1097</b> ● ● ● A
size	
plating	- olive green cadmium F - nickel (for 8T only)
suffix	

part number	HE 308 (8LT)	HE 309 (8T)	A	B
			Max	
		SN1097-08-*A	28 1.102	19.70 0.776
SN1097-09 A		SN1097-10-*A	30.8 1.213	22.20 0.874
SN1097-11 A		SN1097-12-*A	35.1 1.382	26.60 1.047
SN1097-13 A		SN1097-14-*A	38.3 1.508	29.80 1.173
SN1097-15 A		SN1097-16-*A	41.5 1.634	32.90 1.295
SN1097-17 A		SN1097-18-*A	44.7 1.760	36.10 1.421
SN1097-19 A		SN1097-20-*A	47.5 1.870	39.30 1.547
SN1097-21 A		SN1097-22-*A	50.6 1.992	42.10 1.657
SN1097-23 A		SN1097-24-*A	53.8 2.118	45.10 1.776
SN1097-25 A			57.10 2.248	48.40 1.906

\* Plating type

## Reusable fixing plate

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