



Applications

Satellite
Launcher
Space station
Shuttle hardware

Standards

ESA/SCC 3401/056/MIL-DTL-38999
class G (QPL)



Circular connectors with removable crimp contacts

ESA/SCC 3401/056 are used with 3401/058 crimp contacts. This series is suitable for Flight Models.

8DS Series uses the same components as 3401/056 it is derived from. They are delivered without traceability and LAT testing which often complies with Engineering Models requirements.

Note : The ESA/SCC 3401/056 are fully intermateable with NATC (NASA Thread Coupling) connectors (according to NASA specification SSQ 21635).

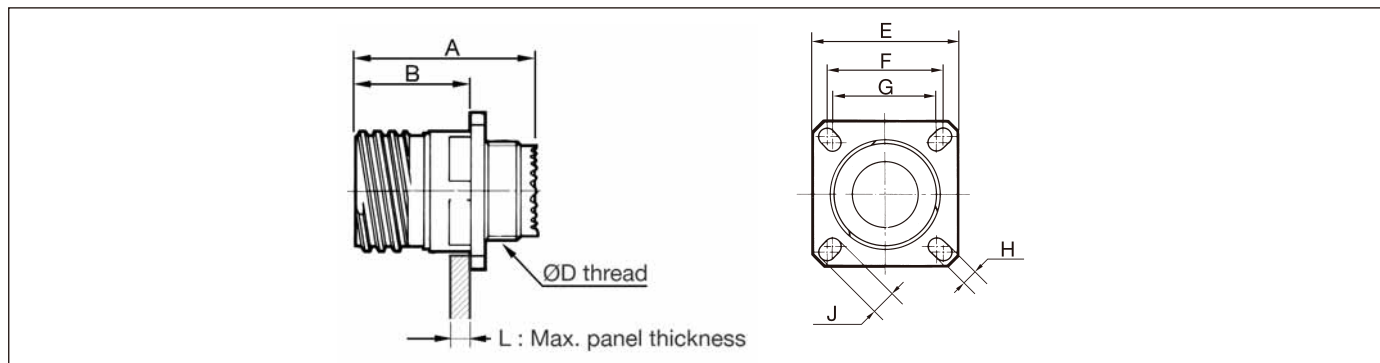
Part Number / Ordering information

SCC specification number	3401 056	01	B	00	19	32	P	N	L
Type of variant ESA not to be modified									
B testing level not to be modified									
Shell type 00 : square flange receptacle (front mounting) 06 : plug (with grounding ring) 07 : jam nut receptacle 66 : plug (with grounding ring) with mirror image contact									
Shell size 09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25									
Contact arrangement (see table page 83)									
Contact type P : pin S : socket									
Clocking position N : normal (standard clocking position) Other positions : A, B, C, D & E									
L : connectors ordered without contacts («L» is not marked on the connector) connectors are only supplied less contacts									

8DS Series	8DS	00	19	32	P	N	L
Shell type 00 : square flange receptacle (front mounting) 06G : plug («G» for grounding) 07 : jam nut receptacle 66G : plug (G for grounding) with mirror image contact							
Shell size 09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25							
Contact arrangement (see table page 83)							
Contact type P : pin S : socket							
Clocking position N : normal (standard clocking position) Other positions : A, B, C, D & E							
L : connectors ordered without contacts («L» is not marked on the connector) connectors are only supplied less contacts							

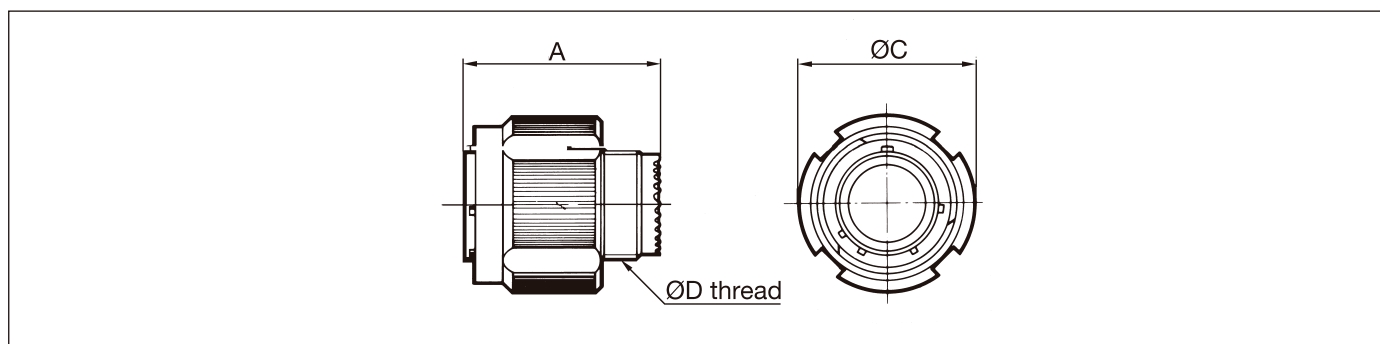


Type 00 : Square flange receptacle



Shell size	09		11		13		15		17		19		21		23		25	
	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max
A		31,50 .1240		32,02 .1261		32,02 .1261		32,02 .1261		32,02 .1261		32,02 .1261		32,02 .1261		32,02 .1261		32,02 .1261
B		20,90 .823		20,90 .823		20,90 .823		20,90 .823		20,90 .823		20,90 .823		20,01 .791		20,01 .791		20,01 .791
C		2,50 .098		2,50 .098		2,50 .098		2,50 .098		2,50 .098		2,50 .098		2,50 .098		2,50 .098		2,50 .098
D	M12 x 1-6 g		M15 x 1-6 g		M18 x 1-6 g		M22 x 1-6 g		M25 x 1-6 g		M28 x 1-6 g		M31 x 1-6 g		M34 x 1-6 g		M37 x 1-6 g	
E	23,50 .925	24,10 .949	25,90 1.020	26,50 1.043	28,30 1.114	28,90 1.138	30,70 1.209	31,30 1.232	33,00 1.299	33,60 1.323	36,20 1.425	36,80 1.449	39,40 1.551	40,00 1.575	42,60 1.677	43,20 1.701	45,70 1.799	46,30 1.823
F	18,16 .715	18,36 .723	20,52 .808	20,72 .816	22,91 .902	23,11 .910	24,51 .965	24,71 .973	26,87 1.058	27,07 1.066	29,26 1.152	29,46 1.160	31,65 1.246	31,85 1.254	34,83 1.371	35,03 1.379	38,00 1.496	38,2 1.504
G	14,99 .567	15,19 .572	18,16 .715	18,36 .723	20,52 .808	20,72 .816	22,91 .902	23,11 .910	24,51 .965	24,71 .973	26,87 1.058	27,07 1.066	29,26 1.152	29,46 1.160	31,65 1.246	31,85 1.245	34,83 1.371	35,03 1.379
H	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,05 .120	3,45 .136	3,71 .146	4,11 .162	3,71 .146	4,11 .162
J	5,29 .208	5,69 .224	4,73 .186	5,13 .202	4,73 .186	5,13 .202	4,73 .186	5,13 .202	4,73 .186	5,13 .202	4,73 .186	5,13 .202	4,73 .186	5,13 .202	5,95 .234	6,35 .250	5,95 .234	6,35 .250
L		2,5 .098		2,5 .098		2,5 .098		2,5 .098		2,5 .098		2,5 .098		2,5 .098		2,5 .098		2,5 .098

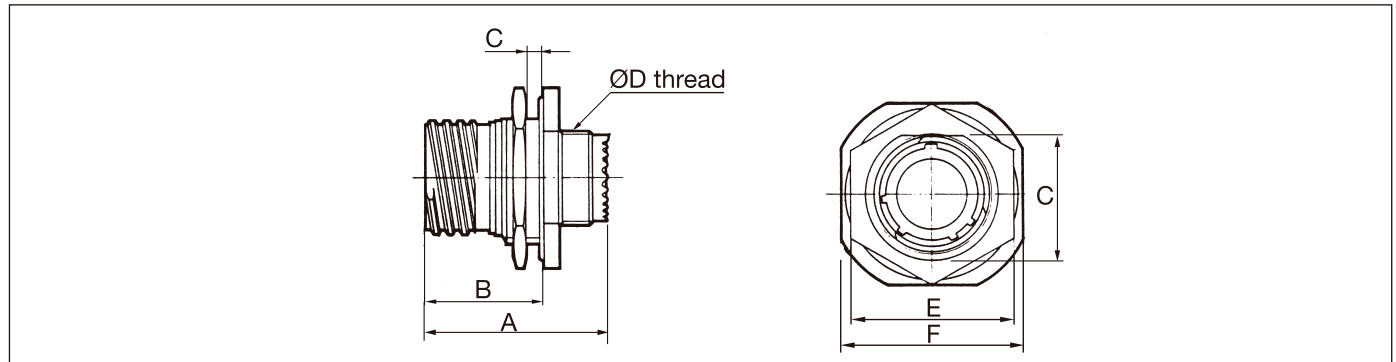
Type 06G : Plug with grounding ring / Type 66G : Plug with mirror image contact



Shell size	09 Max.	11 Max.	13 Max.	15 Max.	17 Max.	19 Max.	21 Max.	23 Max.	25 Max.
A	31 1.220	31 1.220	31 1.220	31 1.220	31 1.220	31 1.220	31 1.220	31 1.220	31 1.220
C	21,8 .858	25 .984	29,4 1.157	32,5 1.280	35,7 1.406	38,5 1.516	41,7 1.642	44,85 1.766	48 1.890
D	M12x1-6g	M15x1-6g	M18x1-6g	M22x1-6g	M25x1-6g	M28x1-6g	M31x1-6g	M34x1-6g	M37x1-6g



Type 07 : Single hole mounting receptacle



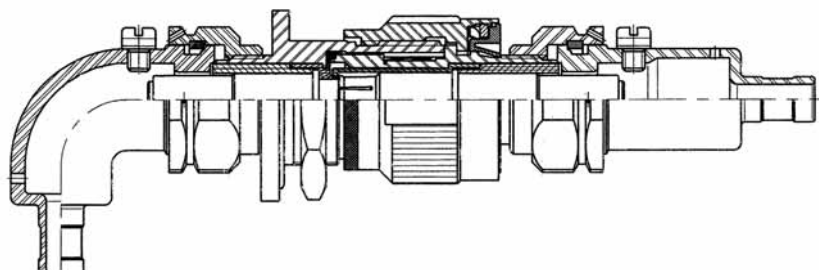
Shell size	9		11		13		15		17		19		21		23		25	
	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max	min	Max
A		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280		32,50 1.280
B		22,60 .890		22,60 .890		22,60 .890		22,60 .890		22,60 .890		22,60 .890		20,01 .791		20,01 .791		20,01 .791
C	16,38 .645	16,63 .655	18,92 .745	19,17 .755	23,67 .932	23,92 .42	26,82 1.056	27,07 1.066	30,00 1.181	30,25 1.191	33,17 1.306	33,42 1.316	36,35 1.431	36,60 1.441	39,52 1.556	39,77 1.566	42,70 1.681	42,95 1.691
D	M12 x 1-6 g		M15 x 1-6 g		M18x 1-6 g		M22 x 1-6 g		M25 x 1-6 g		M28 x 1-6 g		M31 x 1-6 g		M34 x 1-6 g		M37 x 1-6 g	
E		24,00 .945		27,00 1.063		32,00 1.260		36,00 1.417		37,00 1.457		41,00 1.614		46,00 1.811		50,00 1.969		51,23 2.017
F	26,60 1.047	27,40 1.079	31,40 1.236	32,20 1.268	34,50 1.358	35,30 1.390	37,70 1.484	38,50 1.516	40,90 1.610	41,70 1.642	45,60 1.795	46,40 1.827	48,80 1.921	49,60 1.953	52,00 2.047	52,80 2.079	55,20 2.173	56,00 2.205
L		3,20 .126		3,20 .126		3,20 .126		3,20 .126		3,20 .126		3,20 .126		3,20 .126		3,20 .126		3,20 .126



Part Number / Ordering information

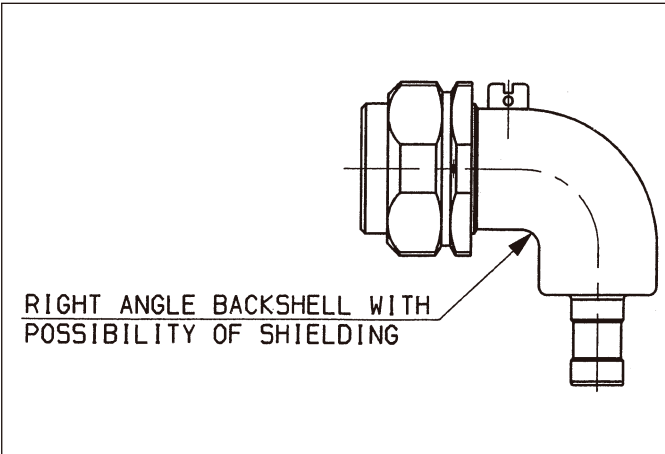
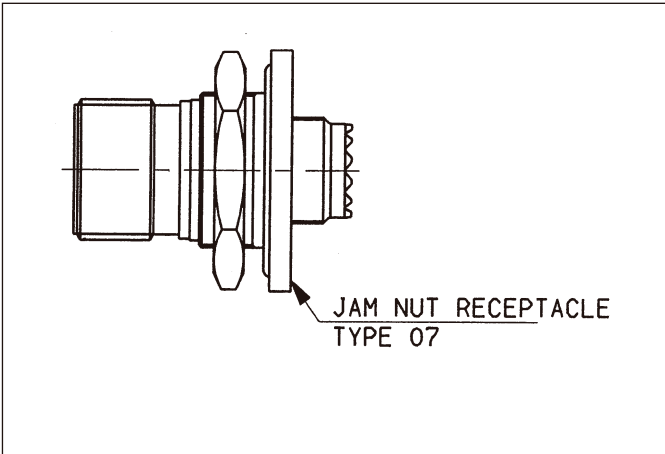
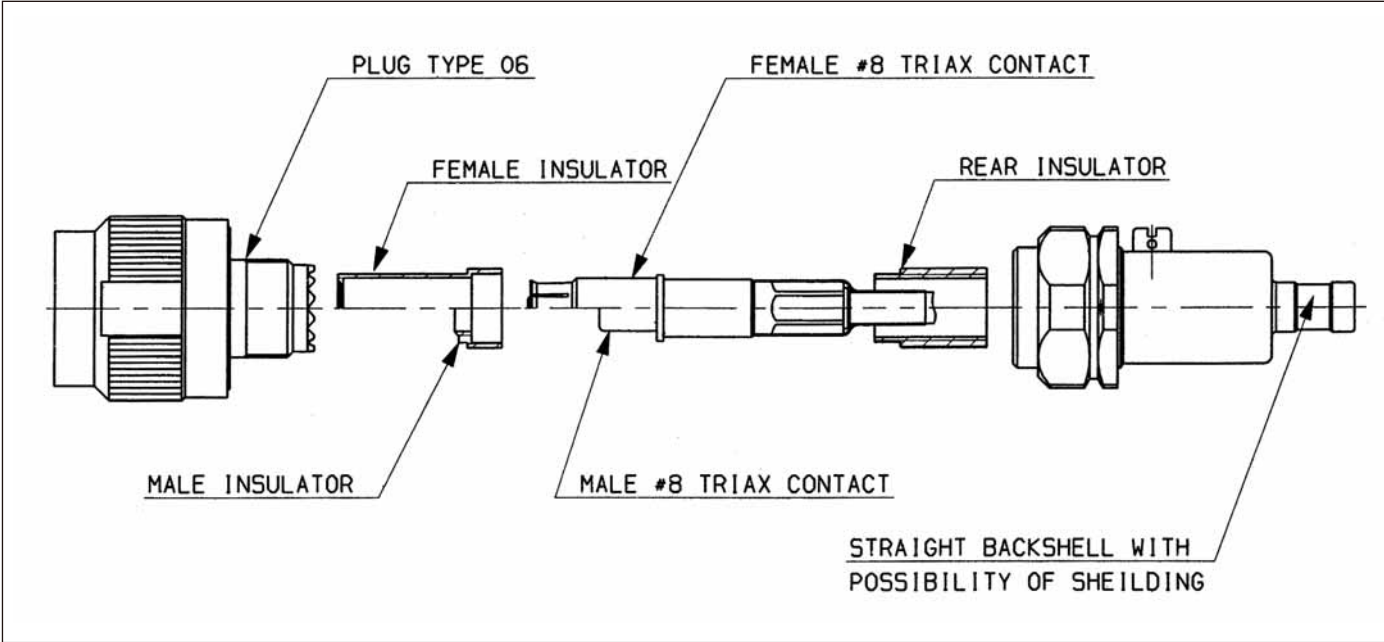
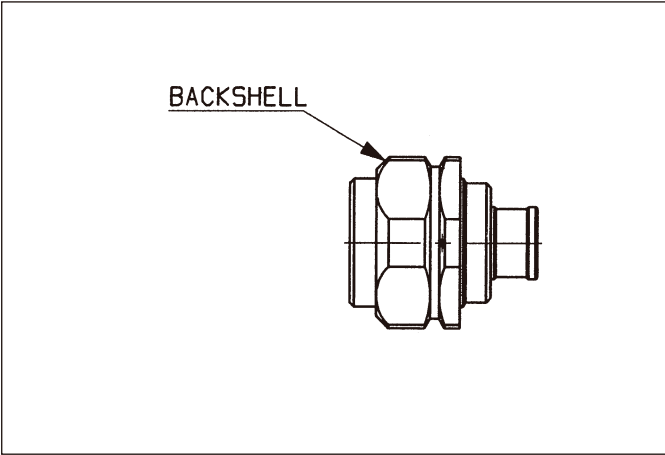
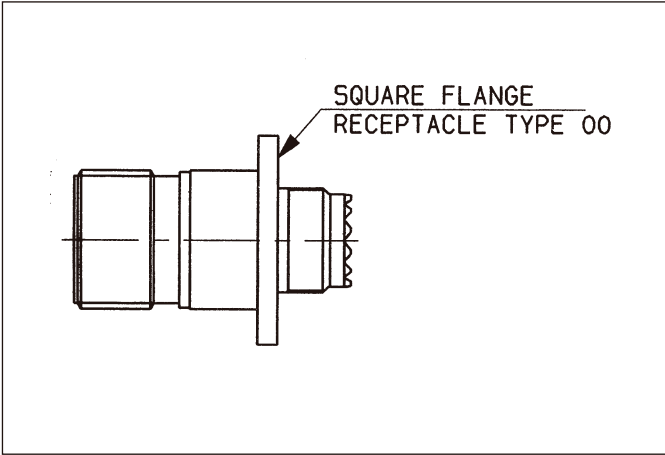
SCC specification number	3401 056	01	B	00	-	09	-	01	P	N	L
Type of variante ESA not to be modified											
B testing level not to be modified											
Shell type											
00 : square flange receptacle											
07 : jam nut receptacle											
06 : plug with RFI shielding											
Dash"- "mandatory											
Shell type: 9											
Dash"- "mandatory											
Contact arrangement (see table page 83)											
Contact type P : Pin S : Socket											
Clocking position N : normal (standard clocking position) Other positions : A, B, C, D & E											
L : connectors ordered without contacts («L» is not marked on the connector)											

8DS Series	8DS	00	19	32	P	N	L
Shell type							
00 : square flange receptacle (front mounting)							
06G : plug («G» for grounding)							
07 : jam nut receptacle							
66G : plug (G for grounding) with mirror image contact							
Shell size							
09 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25							
Contact arrangement (see table page 83)							
Contact type P : pin S : socket							
Clocking position N : normal (standard clocking position) Other positions : A, B, C, D & E							
L : connectors ordered without contacts («L» is not marked on the connector) connectors are only supplied less contacts							



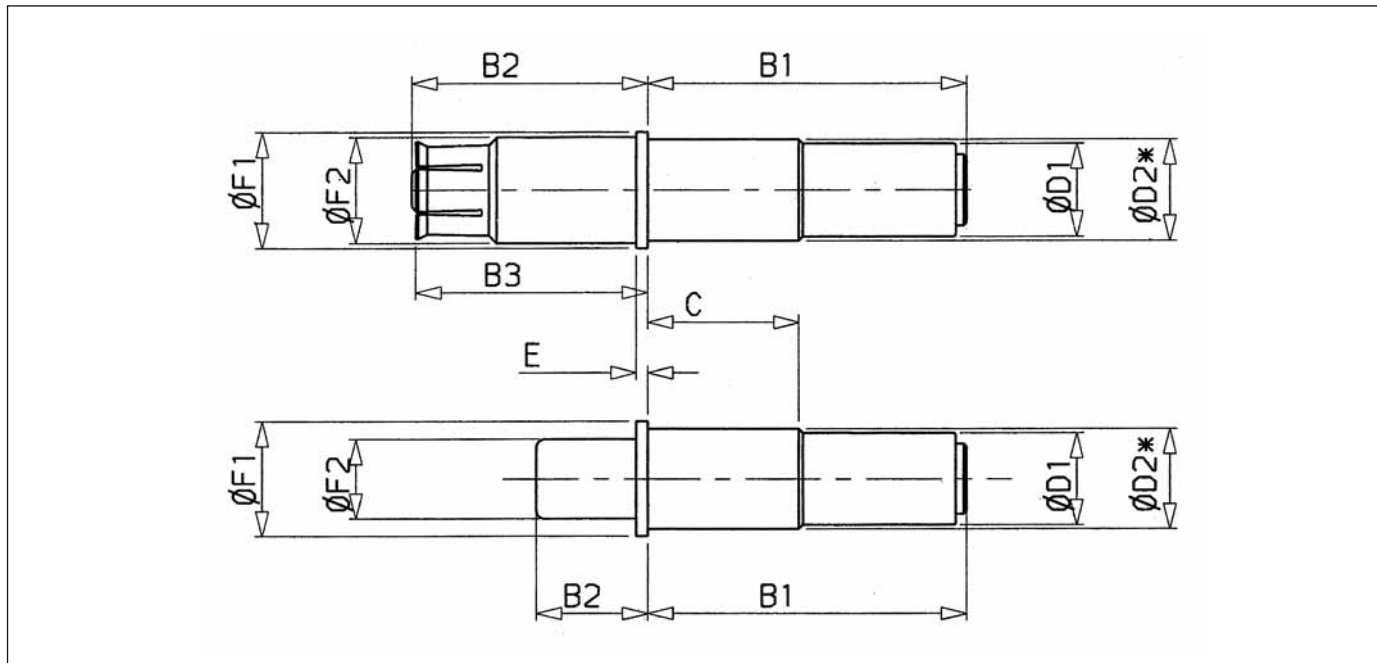


Connector, Electrical, Triax, Crimp for 34010/56 Connectors





Contact electrical, Triax, Crimp for 34010/56 Connectors



Symb.	Min.	Max.	Contact type			
			Male		Female	
			Min.	Max.	Min.	Max.
B1	21.34	22.86				
B2			7.49	7.74	15.80	16.43
B3					15.88	16.03
C	10.00	11.00				
ØD1	6.93	7.01				
ØD2*		6.53				
E	0.74	0.84				
ØF1	7.95	8.03				
ØF2			5.515	5.565	7.22	7.32

* After crimping

Contact Type	ESA/ESA/SCC P/N	SOURIAU P/N
MALE	3401066 01B	SN 1767K 988-A
FEMALE	3401066 02 B	SN 1767K 988-A

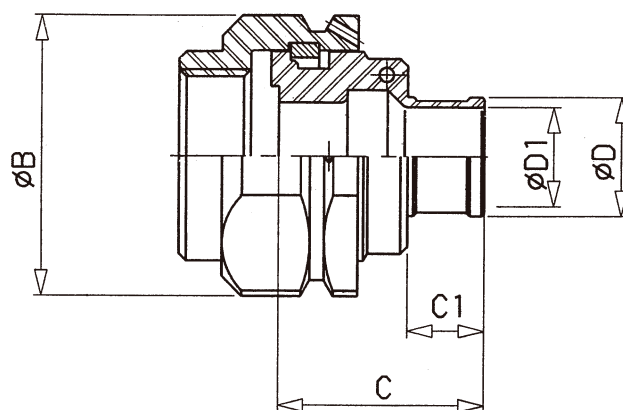
Backshell for 3401/056 monotriax connectors



Straight Short Backshell

$\varnothing B$ Max.	C Max.	C1 Max.	$\varnothing D$ Max.	$\varnothing D1$ Max.
20(1)	14.5	5.5	8.5	7.0

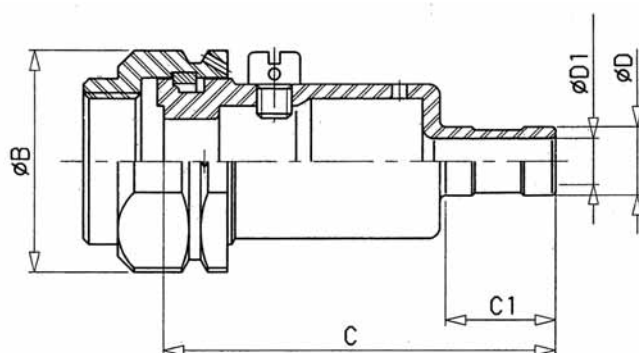
ESA/SCC P/N	SOURIAU P/N
3401 062 65B	8975-6650A



Straight Shield Termination

$\varnothing B$ Max.	C Max.	C1 Max.	$\varnothing D$ Max.	$\varnothing D1$ ± 0.25
20(1)	34.5	10.5	7	4.25

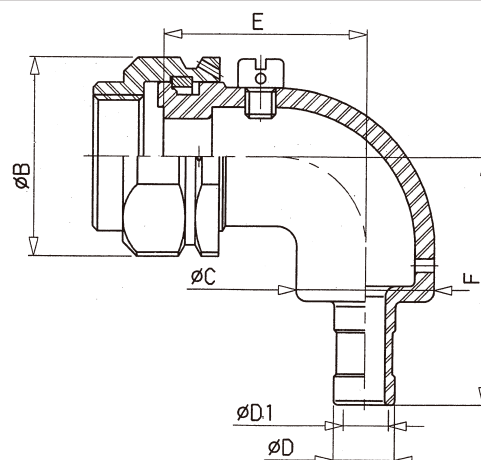
ESA/SCC P/N	SOURIAU P/N
3401 062 66B	8975-6641A



90° Shield Termination

$\varnothing B$ Max.	$\varnothing C$ Max.	$\varnothing D$ Max.	$\varnothing D1$ ± 0.25	E Max.	F Max.
20(1)	14	7	4.25	20.5	24.5

ESA/SCC P/N	SOURIAU P/N
3401 062 67B	8975-6644A





Part Number / Ordering information

SCC specification number	3401070	01	B	00	C	09	-	01	P	N
Type of variant ESA not to be modified										
B testing level not to be modified										
Shell type 00 : square flange receptacle 07 : jam nut receptacle										
Contact post it L : long spill C : short spill										
Shell size: 9 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25										
Dash"-mandatory										
Contact arrangement (see table page 83)										
Contact type P : pin S : socket										
Clocking position N : normal (standard clocking position) Other positions : A, B, C, D & E										

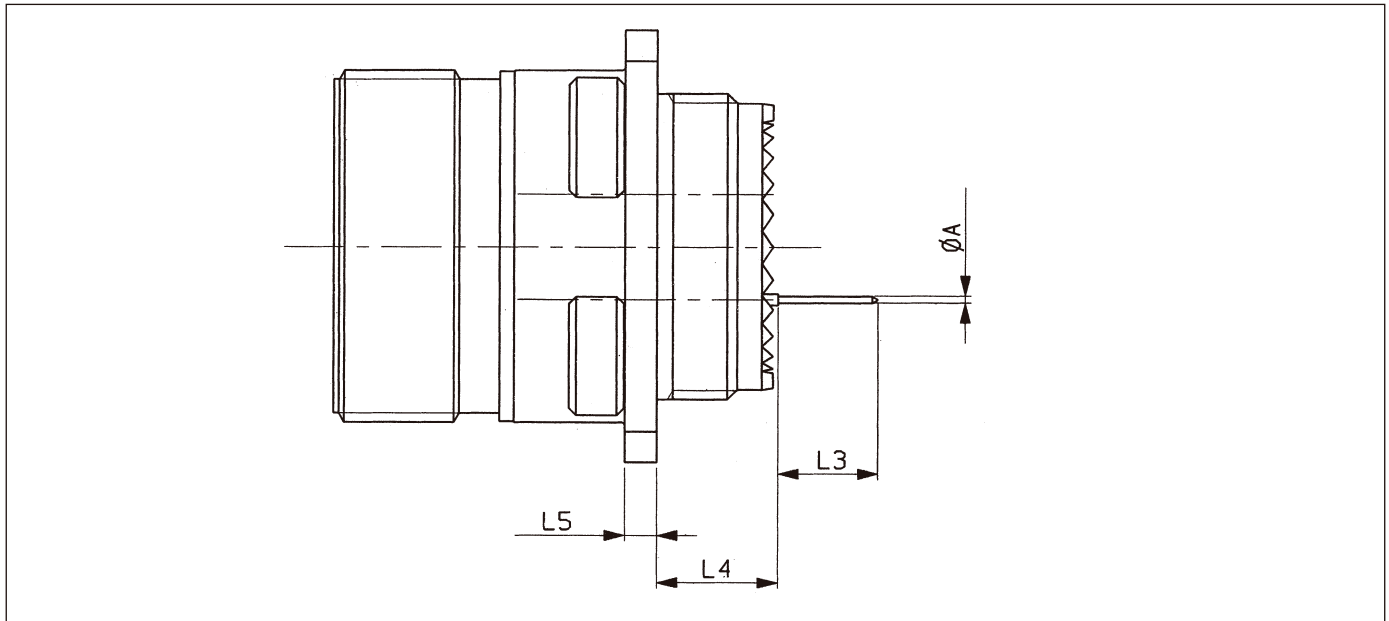
Supplied only with contacts fitted

8DS Series	8DS	00	C	09	-	01	P	N
Shell type 00 : square flange receptacle 07 : jam nut receptacle								
Contact post it L : long spill C : short spill								
Shell size: 9 - 11 - 13 - 15 - 17 - 19 - 21 - 23 - 25								
Dash"-mandatory								
Contact arrangement (see table page 83)								
Contact type P : pin S : Socket								
Clocking position N : Normal Other positions : A, B, C, D & E								

Supplied only with contacts fitted



Connector, Electrical, Square Flange receptacle (triple start, with straight spill contacts) 3401/070 & 8DS 00 Series



L5 : Shells sizes 9 to 19 2.26 ± 0.10

Shells sizes 21 to 25 2.97 ± 0.10

Shell size		9	11	13	15	17	19	21	23	25
ØA	# 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	0.70 .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
L4CM # 22D	Min.	9.48 .414	9.48 .414	9.48 .373	9.48 .373	9.48 .373	9.48 .373	9.59 .378	9.59 .378	9.59 .378
	Max.	10.58 .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.	9.15 .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.	10.58 .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.	9.65 .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.	10.75 .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.	9.65 .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.	10.75 .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.	9.65 .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.	10.75 .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.	9.65 .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.	10.75 .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
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
	PL # 20	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 # 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
	PL # 16	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 # 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

CM: male contact

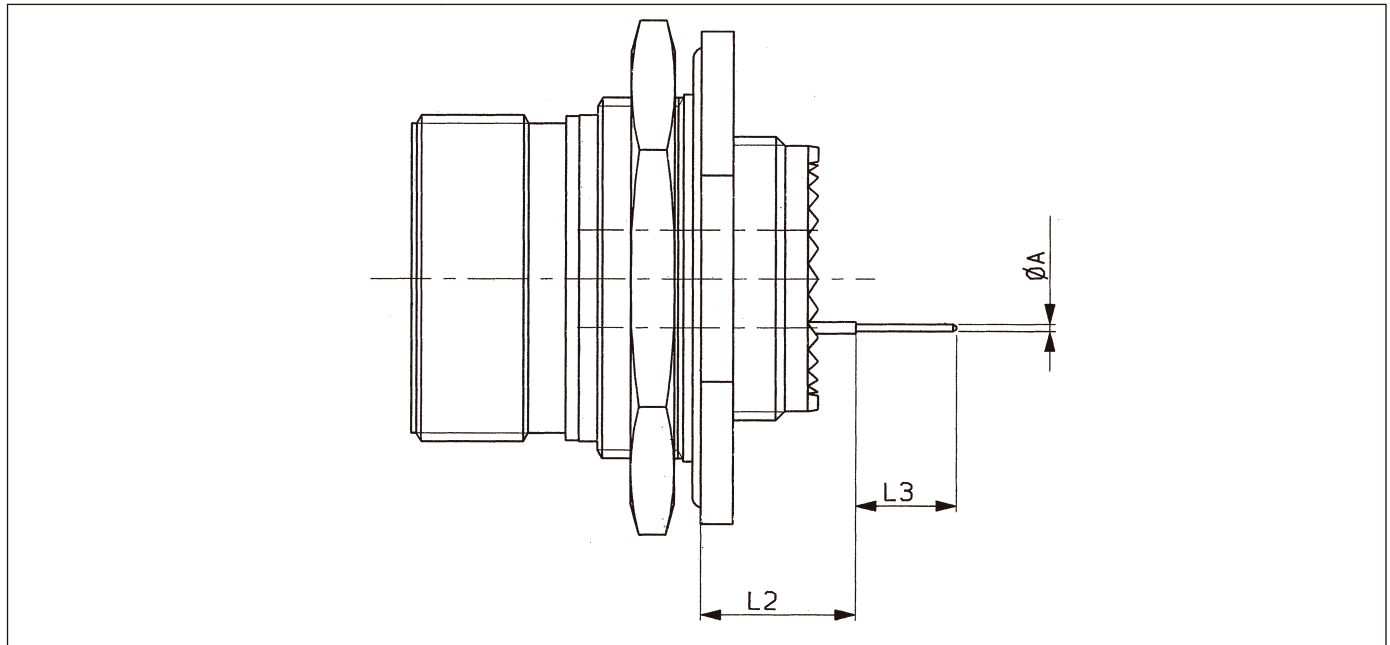
CF: female contact

PL: long spill

PC: Short spill



Connector, Electrical, Jam-nut mounted receptacle (triple start, with straight spill contacts) 3401/070 & 8DS 07 series



Shell size		9	11	13	15	17	19	21	23	25
ØA	# 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	0.70 .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
L2CM # 22D	Min.	10.52 .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.	11.46 .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.	10.19 .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.	11.46 .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.	10.69 .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.	11.63 .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.	10.69 .421	10.69 .421	10.51 .380	10.51 .380	10.51 .380	10.51 .380	10.51 .384	10.51 .384	10.51 .384
	Max.	11.63 .458	11.63 .458	11.45 .414	11.45 .414	11.45 .414	11.45 .414	11.45 .414	11.45 .414	11.45 .414
L2CM # 16	Min.	10.69 .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.	11.63 .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.	10.69 .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.	11.63 .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
	PL # 20	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 # 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
	PL # 16	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 # 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

CM: male contact

CF: female contact

PL: long spill

PC: Short spill