



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.

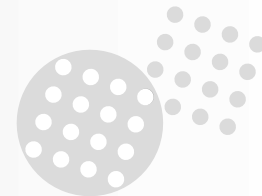
8DS Series uses the same components as 3401/056 it is derived from. They are delivered without traceability and LAT testing which often complies with Engineering Models requirements.

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

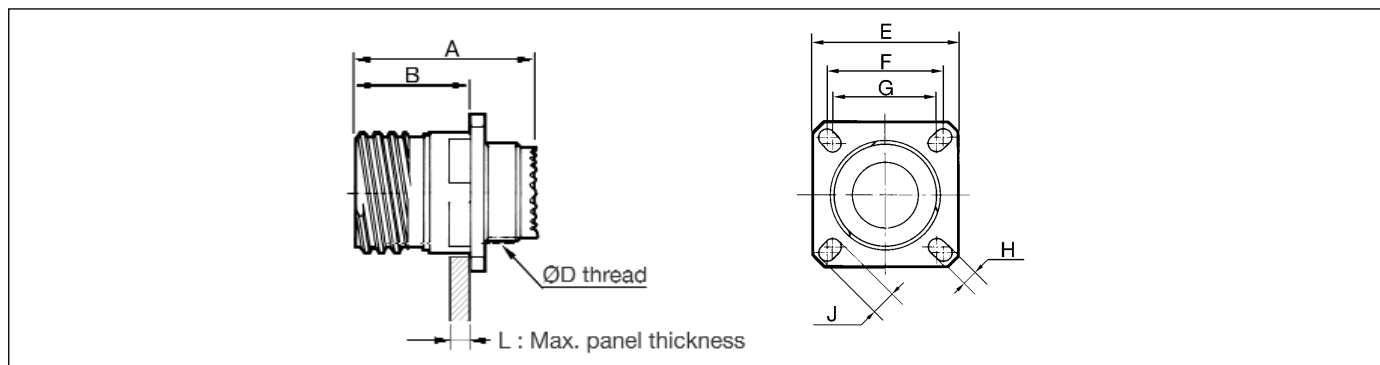
Part Number / Ordering information

| 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 | | | | | | | |

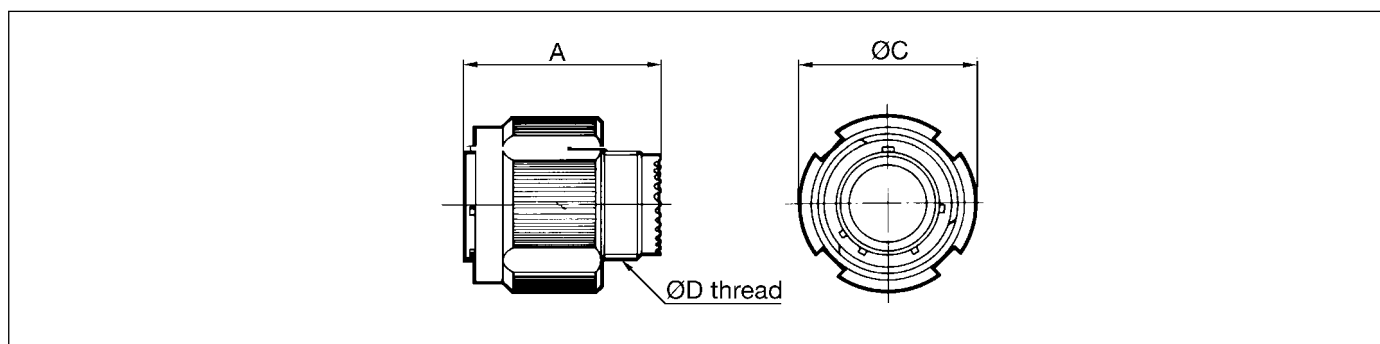


Type 00 : Square flange receptacle



| 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 |

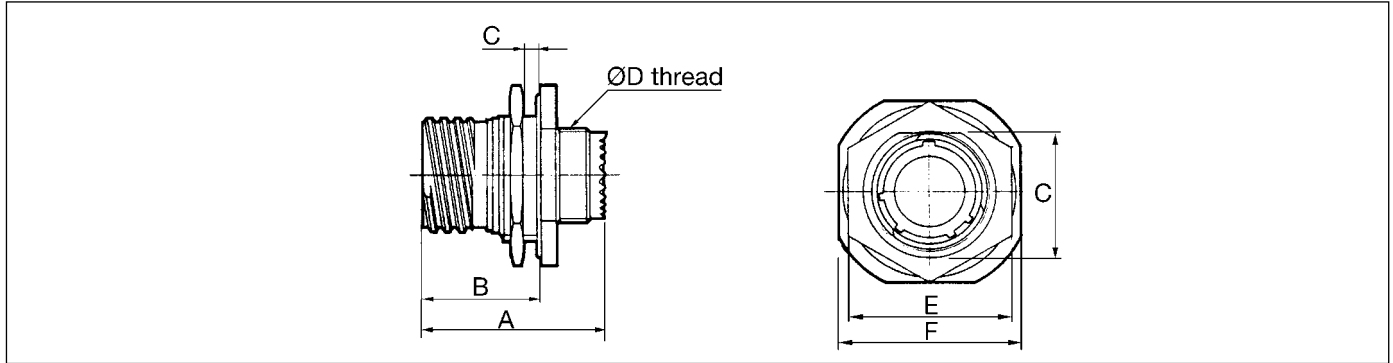
Type 06G : Plug with grounding ring / Type 66G : Plug with mirror image contact



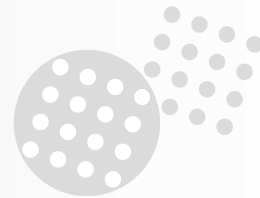
| Shell size | 09 Max. | 11 Max. | 13 Max. | 15 Max. | 17 Max. | 19 Max. | 21 Max. | 23 Max. | 25 Max. |
|------------|--------------|-------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------|
| A | 31 1.220 | 31 1.220 | 31 1.220 | 31 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



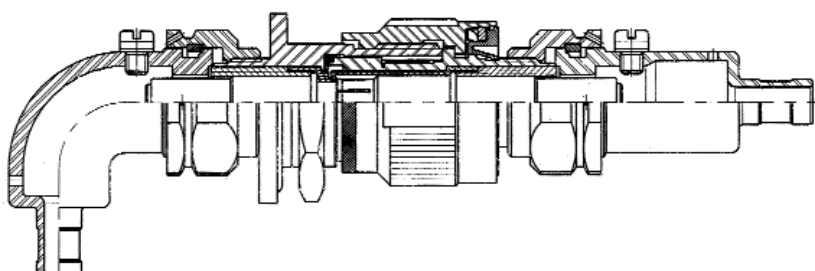
| Shell size | 9 | | 11 | | 13 | | 15 | | 17 | | 19 | | 21 | | 23 | | 25 | |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 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

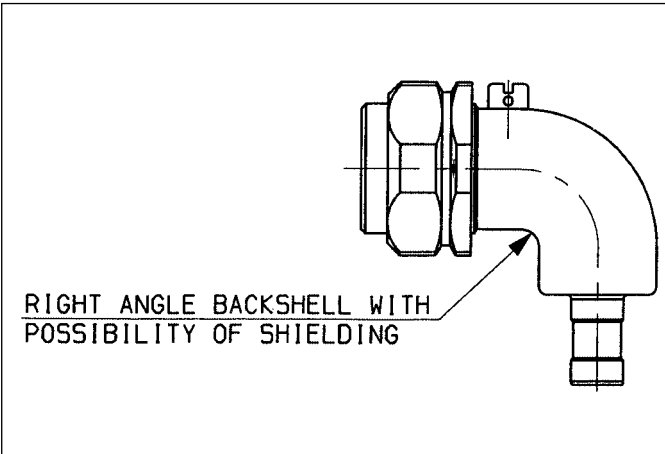
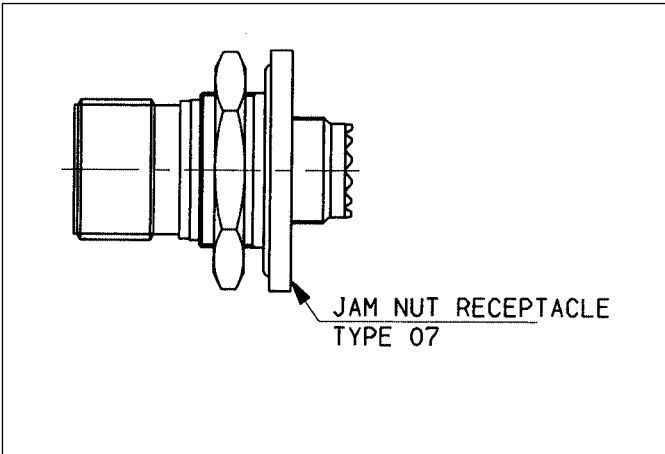
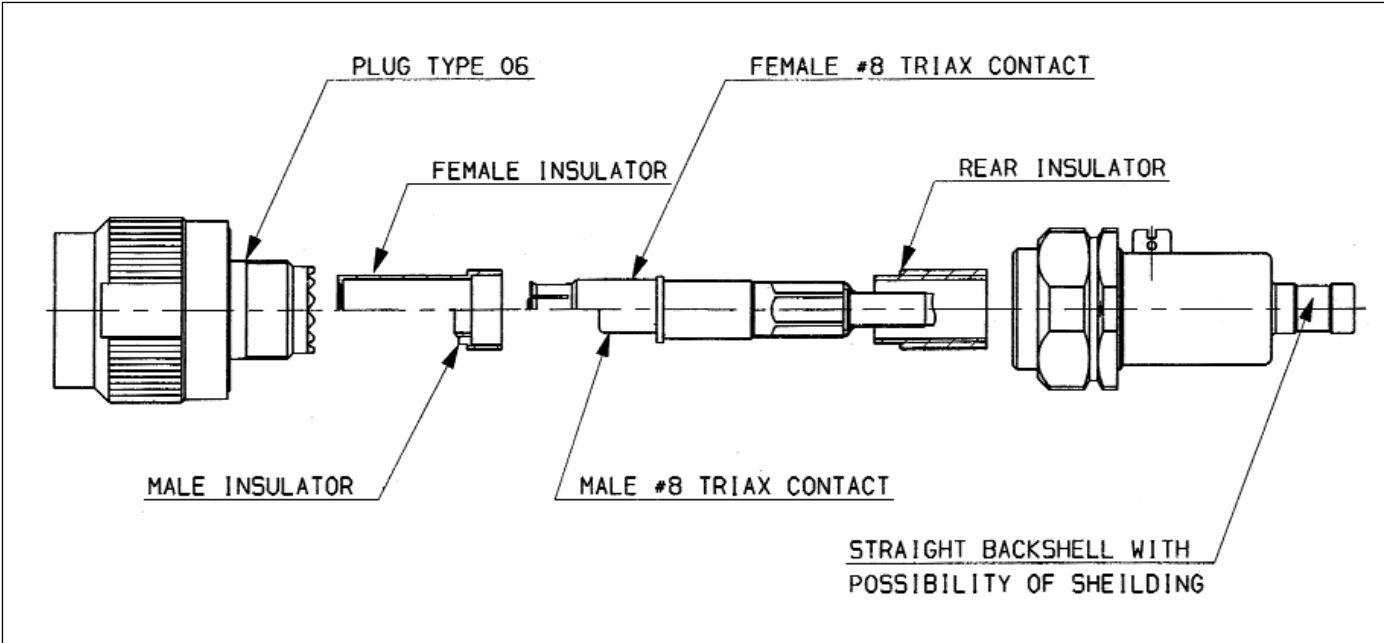
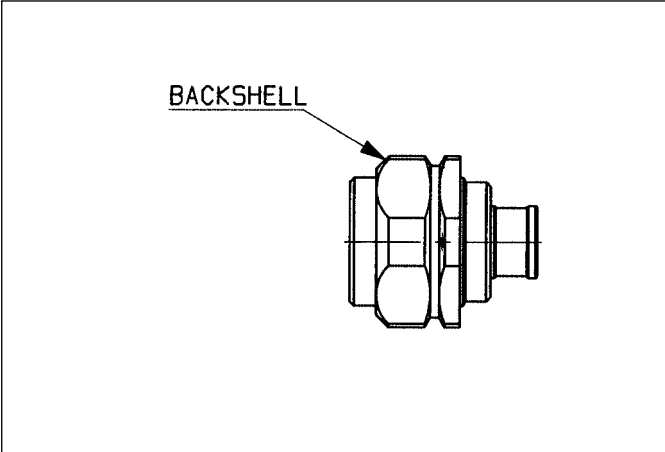
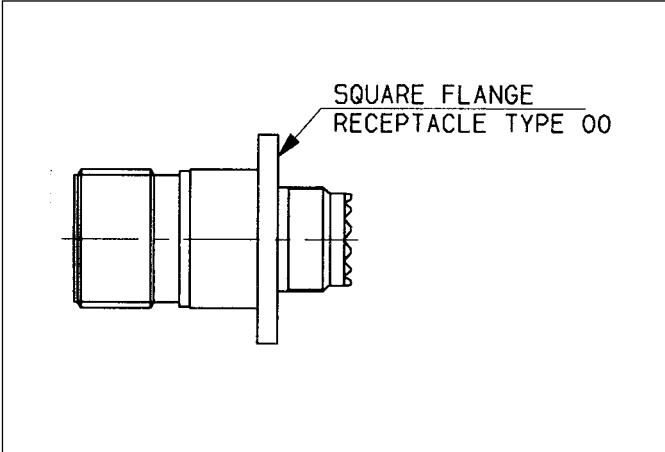
| | | | | | | | | | | | |
|--|-----------------|-----------|----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|
| SCC specification number | 3401 056 | 01 | B | 00 | - | 09 | - | 01 | P | N | L |
| Type of variante ESA not to be modified | | | | | | | | | | | |
| 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 | | | | | | | |



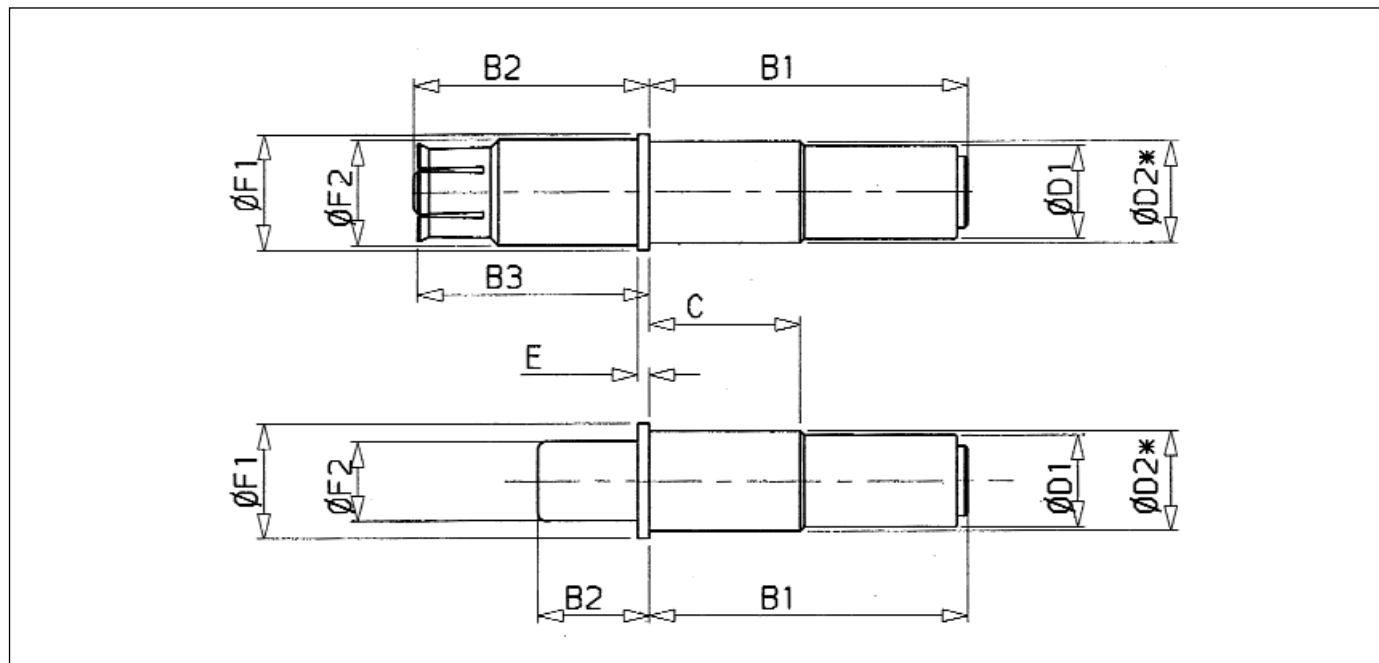


Connector, Electrical, Triax, Crimp for 34010/56 Connectors





Contact electrical, Triax, Crimp for 34010/56 Connectors

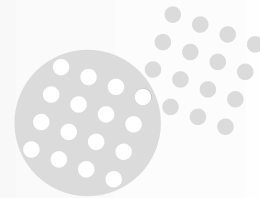


| Symb. | Min. | Max. | Contact type | | | |
|-------------|-------|-------|--------------|-------|--------|-------|
| | | | Male | | Female | |
| | | | Min. | Max. | Min. | Max. |
| B1 | 21.34 | 22.86 | | | | |
| B2 | | | 7.49 | 7.74 | 15.80 | 16.43 |
| B3 | | | | | 15.88 | 16.03 |
| C | 10.00 | 11.00 | | | | |
| 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 |

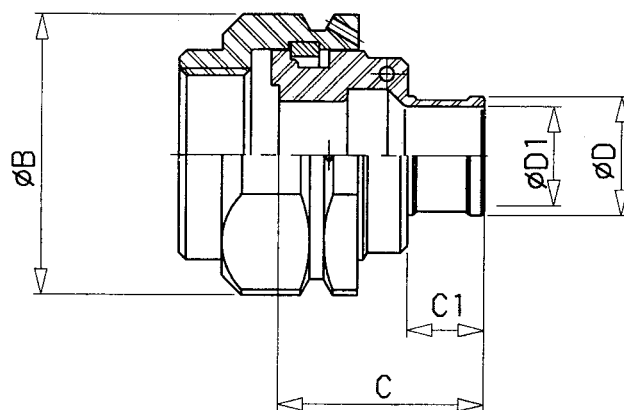
Backshell for 3401/056 monotriax connectors



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 |

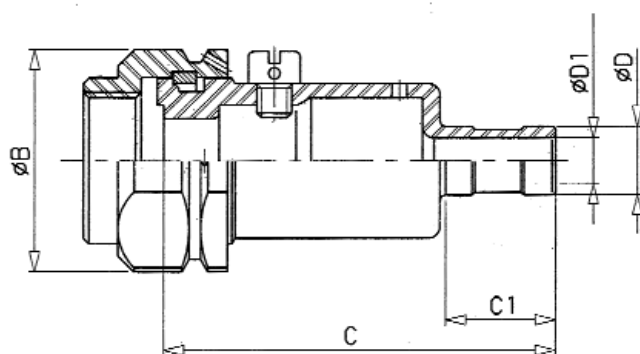
| ESA/SCC P/N | SOURIAU P/N |
|--------------|-------------|
| 3401 062 65B | 8975-6650A |



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 |

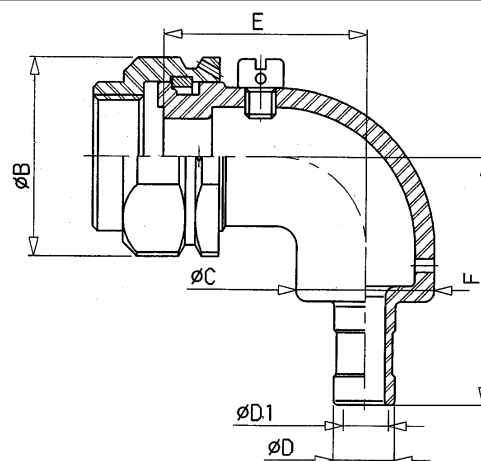
| ESA/SCC P/N | SOURIAU P/N |
|--------------|-------------|
| 3401 062 66B | 8975-6641A |



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 | | | | | | | | | | |

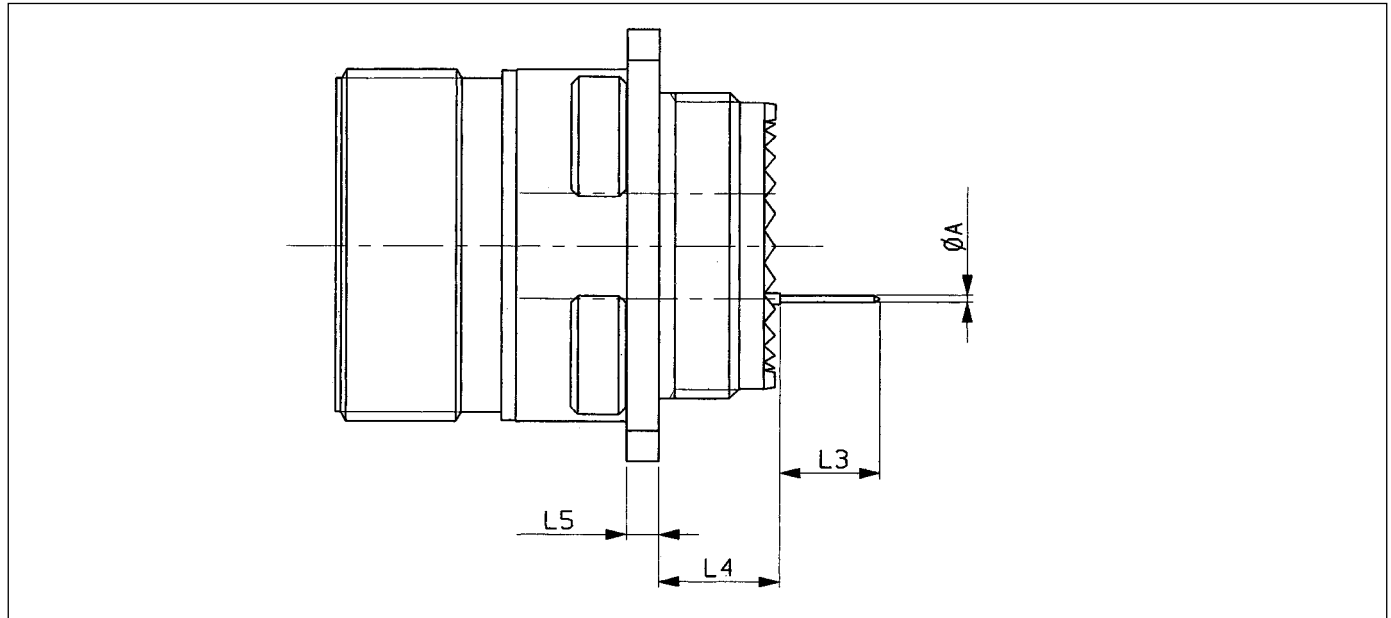
Supplied only with contacts fitted

| | | | | | | | | |
|--|------------|-----------|----------|-----------|----------|-----------|----------|----------|
| 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

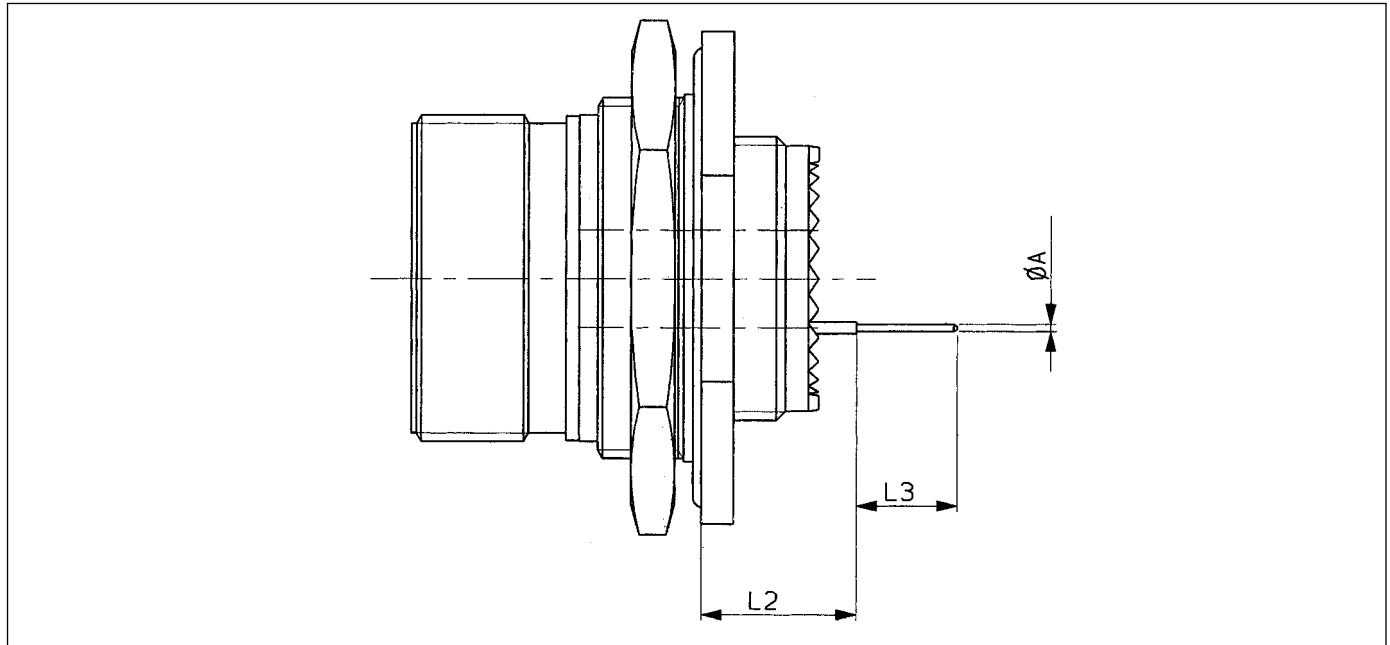
CF: female contact

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