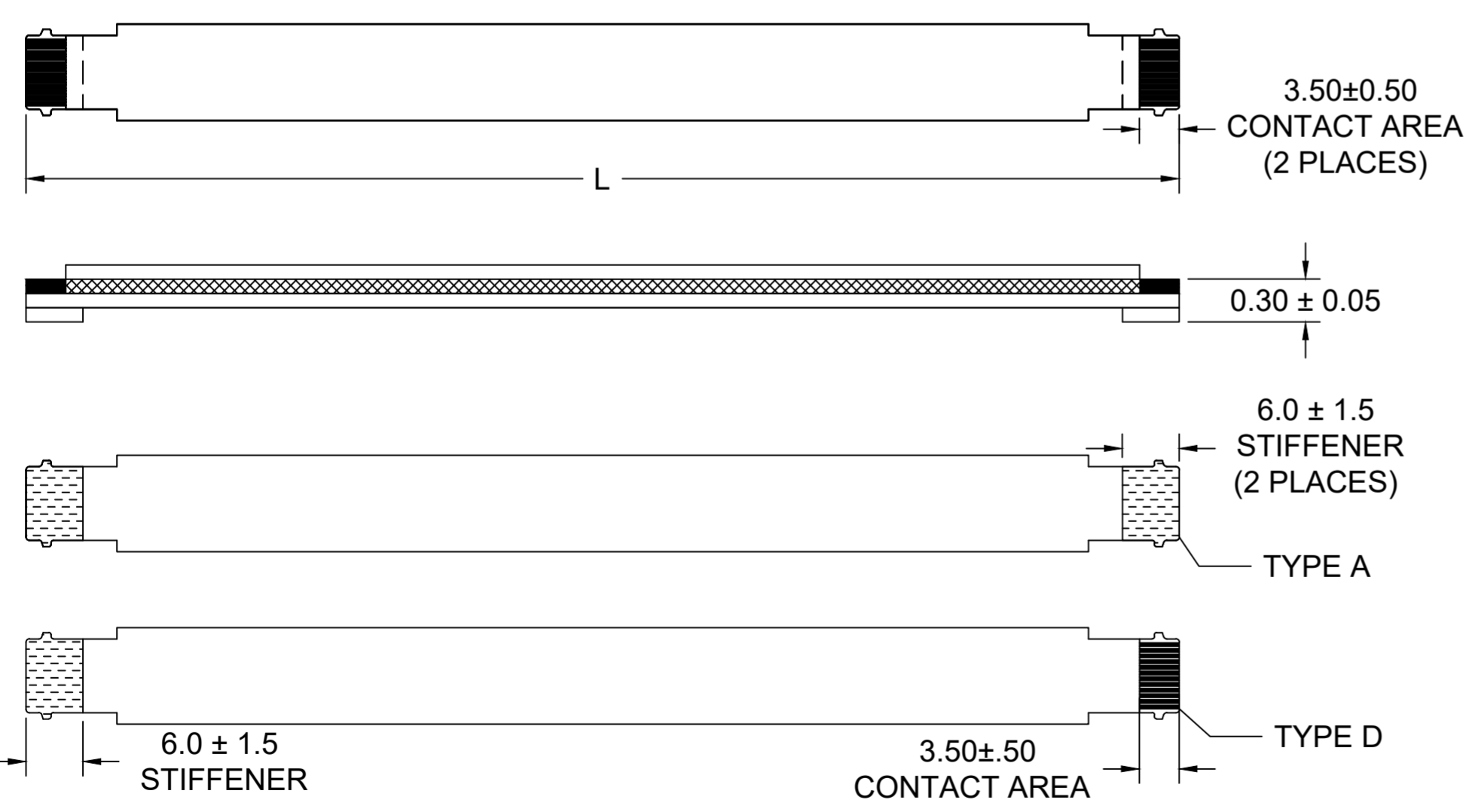


# 0.50MM CENTER FLAT FLEX CABLE (FFC) (105°C, Au PLATED)

| "L" DIM. ==>   | 51 ± 2 MM  |           | 76 ± 3 MM  |           | 102 ± 3 MM |           | 127 ± 4 MM |           | 152 ± 4 MM |           | 178 ± 4 MM |           | 203 ± 4 MM |           | 229 ± 5 MM |           | 254 ± 5 MM  |           | 305 ± 5 MM  |           |
|----------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|-------------|-----------|-------------|-----------|
| REF DIM ==>    | (2 INCHES) |           | (3 INCHES) |           | (4 INCHES) |           | (5 INCHES) |           | (6 INCHES) |           | (7 INCHES) |           | (8 INCHES) |           | (9 INCHES) |           | (10 INCHES) |           | (12 INCHES) |           |
| CABLE TYPE ==> | A          |           | D          |           | A          |           | D          |           | A          |           | D          |           | A          |           | D          |           | A           |           | D           |           |
| CIRCUITS       | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A           | D         | A           | D         |
| 6              | 150180053  | 150180054 | 150180055  | 150180056 | 150180057  | 150180058 | 150180059  | 150180060 | 150180061  | 150180062 | 150180063  | 150180064 | 150180065  | 150180066 | 150180067  | 150180068 | 150180069   | 150180070 | 150180071   | 150180072 |
| 8              | 150180075  | 150180076 | 150180077  | 150180078 | 150180079  | 150180080 | 150180081  | 150180082 | 150180083  | 150180084 | 150180085  | 150180086 | 150180087  | 150180088 | 150180089  | 150180090 | 150180091   | 150180092 | 150180093   | 150180094 |
| 10             | 150180097  | 150180098 | 150180099  | 150180100 | 150180101  | 150180102 | 150180103  | 150180104 | 150180105  | 150180106 | 150180107  | 150180108 | 150180109  | 150180110 | 150180111  | 150180112 | 150180113   | 150180114 | 150180115   | 150180116 |
| 12             | 150180119  | 150180120 | 150180121  | 150180122 | 150180123  | 150180124 | 150180125  | 150180126 | 150180127  | 150180128 | 150180129  | 150180130 | 150180131  | 150180132 | 150180133  | 150180134 | 150180135   | 150180136 | 150180137   | 150180138 |
| 14             | 150180141  | 150180142 | 150180143  | 150180144 | 150180145  | 150180146 | 150180147  | 150180148 | 150180149  | 150180150 | 150180151  | 150180152 | 150180153  | 150180154 | 150180155  | 150180156 | 150180157   | 150180158 | 150180159   | 150180160 |
| 16             | 150180163  | 150180164 | 150180165  | 150180166 | 150180167  | 150180168 | 150180169  | 150180170 | 150180171  | 150180172 | 150180173  | 150180174 | 150180175  | 150180176 | 150180177  | 150180178 | 150180179   | 150180180 | 150180181   | 150180182 |
| 18             | 150180185  | 150180186 | 150180187  | 150180188 | 150180189  | 150180190 | 150180191  | 150180192 | 150180193  | 150180194 | 150180195  | 150180196 | 150180197  | 150180198 | 150180199  | 150180200 | 150180201   | 150180202 | 150180203   | 150180204 |
| 20             | 150180207  | 150180208 | 150180209  | 150180210 | 150180211  | 150180212 | 150180213  | 150180214 | 150180215  | 150180216 | 150180217  | 150180218 | 150180219  | 150180220 | 150180221  | 150180222 | 150180223   | 150180224 | 150180225   | 150180226 |
| 22             | 150180229  | 150180230 | 150180231  | 150180232 | 150180233  | 150180234 | 150180235  | 150180236 | 150180237  | 150180238 | 150180239  | 150180240 | 150180241  | 150180242 | 150180243  | 150180244 | 150180245   | 150180246 | 150180247   | 150180248 |
| 24             | 150180251  | 150180252 | 150180253  | 150180254 | 150180255  | 150180256 | 150180257  | 150180258 | 150180259  | 150180260 | 150180261  | 150180262 | 150180263  | 150180264 | 150180265  | 150180266 | 150180267   | 150180268 | 150180269   | 150180270 |
| 26             | 150180273  | 150180274 | 150180275  | 150180276 | 150180277  | 150180278 | 150180279  | 150180280 | 150180281  | 150180282 | 150180283  | 150180284 | 150180285  | 150180286 | 150180287  | 150180288 | 150180289   | 150180290 | 150180291   | 150180292 |
| 28             | 150180295  | 150180296 | 150180297  | 150180298 | 150180299  | 150180300 | 150180301  | 150180302 | 150180303  | 150180304 | 150180305  | 150180306 | 150180307  | 150180308 | 150180309  | 150180310 | 150180311   | 150180312 | 150180313   | 150180314 |
| 30             | 150180317  | 150180318 | 150180319  | 150180320 | 150180321  | 150180322 | 150180323  | 150180324 | 150180325  | 150180326 | 150180327  | 150180328 | 150180329  | 150180330 | 150180331  | 150180332 | 150180333   | 150180334 | 150180335   | 150180336 |
| 32             | 150180339  | 150180340 | 150180341  | 150180342 | 150180343  | 150180344 | 150180345  | 150180346 | 150180347  | 150180348 | 150180349  | 150180350 | 150180351  | 150180352 | 150180353  | 150180354 | 150180355   | 150180356 | 150180357   | 150180358 |
| 34             | 150180361  | 150180362 | 150180363  | 150180364 | 150180365  | 150180366 | 150180367  | 150180368 | 150180369  | 150180370 | 150180371  | 150180372 | 150180373  | 150180374 | 150180375  | 150180376 | 150180377   | 150180378 | 150180379   | 150180380 |
| 36             | 150180383  | 150180384 | 150180385  | 150180386 | 150180387  | 150180388 | 150180389  | 150180390 | 150180391  | 150180392 | 150180393  | 150180394 | 150180395  | 150180396 | 150180397  | 150180398 | 150180399   | 150180400 | 150180401   | 150180402 |
| 38             | 150180405  | 150180406 | 150180407  | 150180408 | 150180409  | 150180410 | 150180411  | 150180412 | 150180413  | 150180414 | 150180415  | 150180416 | 150180417  | 150180418 | 150180419  | 150180420 | 150180421   | 150180422 | 150180423   | 150180424 |
| 40             | 150180427  | 150180428 | 150180429  | 150180430 | 150180431  | 150180432 | 150180433  | 150180434 | 150180435  | 150180436 | 150180437  | 150180438 | 150180439  | 150180440 | 150180441  | 150180442 | 150180443   | 150180444 | 150180445   | 150180446 |
| 42             | 150180449  | 150180450 | 150180451  | 150180452 | 150180453  | 150180454 | 150180455  | 150180456 | 150180457  | 150180458 | 150180459  | 150180460 | 150180461  | 150180462 | 150180463  | 150180464 | 150180465   | 150180466 | 150180467   | 150180468 |
| 44             | 150180471  | 150180472 | 150180473  | 150180474 | 150180475  | 150180476 | 150180477  | 150180478 | 150180479  | 150180480 | 150180481  | 150180482 | 150180483  | 150180484 | 150180485  | 150180486 | 150180487   | 150180488 | 150180489   | 150180490 |
| 46             | 150180493  | 150180494 | 150180495  | 150180496 | 150180497  | 150180498 | 150180499  | 150180500 | 150180501  | 150180502 | 150180503  | 150180504 | 150180505  | 150180506 | 150180507  | 150180508 | 150180509   | 150180510 | 150180511   | 150180512 |
| 48             | 150180515  | 150180516 | 150180517  | 150180518 | 150180519  | 150180520 | 150180521  | 150180522 | 150180523  | 150180524 | 150180525  | 150180526 | 150180527  | 150180528 | 150180529  | 150180530 | 150180531   | 150180532 | 150180533   | 150180534 |
| 50             | 150180537  | 150180538 | 150180539  | 150180540 | 150180541  | 150180542 | 150180543  | 150180544 | 150180545  | 150180546 | 150180547  | 150180548 | 150180549  | 150180550 | 150180551  | 150180552 | 150180553   | 150180554 | 150180555   | 150180556 |
| 60             | 150180559  | 150180560 | 150180561  | 150180562 | 150180563  | 150180564 | 150180565  | 150180566 | 150180567  | 150180568 | 150180569  | 150180570 | 150180571  | 150180572 | 150180573  | 150180574 | 150180575   | 150180576 | 150180577   | 150180578 |
| 70             | 150180581  | 150180582 | 150180583  | 150180584 | 150180585  | 150180586 | 150180587  | 150180588 | 150180589  | 150180590 | 150180591  | 150180592 | 150180593  | 150180594 | 150180595  | 150180596 | 150180597   | 150180598 | 150180599   | 150180600 |



- NOTES:**
- NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.
  - FOR ODD CIRCUIT COUNT, CROSS-SECTION AND END-TAIL DETAIL REFER TO SHEET # 2
  - CABLES MATES WITH MOLEX FFC/FPC CONNECTOR SERIES # 505110

|   |   |       |                                      |                        |                   |            |                 |                        |                 |          |              |  |  |  |   |  |  |  |
|---|---|-------|--------------------------------------|------------------------|-------------------|------------|-----------------|------------------------|-----------------|----------|--------------|--|--|--|---|--|--|--|
| FUNCTIONAL SYMBOLS<br>$F_A=0$<br>$F_C=0$<br>$F_P=0$<br>DIVISIONAL SYMBOLS | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                                      |                        |                   |            |                 |                        |                 |          |              |  |  |  |   |  |  |  |
|   | DIMENSION UNITS   | SCALE | CURRENT REV DESC: DRAWING CORRECTION |                        |                   |            |                 |                        |                 |          | molex        |  |  |  |   |  |  |  |
|   | MM  | 2:1   |                                      |                        |                   |            |                 |                        |                 |          |              |  |  |  |   |  |  |  |
|   | GENERAL TOLERANCES (UNLESS SPECIFIED)   |       |                                      |                        |                   |            |                 |                        |                 |          |              |  |  |  | 0.50MM CENTER FLAT FLEX CABLE (FFC)<br>(105°C, AU PLATED) SALES DRAWING<br><br>PRODUCT CUSTOMER DRAWING |  |  |  |
|   | mm  |       | INCH                                 |                        | EC NO: 728054     | 2022/11/10 | SD-15018-001    |                        | DOC TYPE        | DOC PART |              |  |  |  |   |  |  |  |
|   | 4 PLACES  | ±---- | ±----                                | ±----                  | DRWN: DIEGOG7     | 2022/11/14 |                 |                        | PSD             | 001      | C            |  |  |  |   |  |  |  |
|   | 3 PLACES  | ±---- | ±----                                | ±----                  | CHK'D: JSMITH11   | 2022/11/14 |                 |                        | 1 OF 2          |          |              |  |  |  |   |  |  |  |
|   | 2 PLACES  | ±---- | ±----                                | ±----                  | APPR: JSMITH11    | 2022/11/14 |                 |                        |                 |          |              |  |  |  |   |  |  |  |
|   | 1 PLACE   | ±---- | ±----                                | ±----                  | INITIAL REVISION: |            |                 |                        |                 |          |              |  |  |  |   |  |  |  |
|   | 0 PLACES  | ±---- | ±----                                | ±----                  | DRWN: MSHANNON    | 2019/03/13 | DOCUMENT NUMBER |                        | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |  |  |  |   |  |  |  |
| ANGULAR TOL ± 0.5 °   |   |       |                                      | APPR: DENGLISH         | 2019/09/25        | SERIES     | DRAWING         | THIRD ANGLE PROJECTION | DRAWING         | SERIES   |              |  |  |  |   |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                      |   |       |                                      | THIRD ANGLE PROJECTION |                   | DRAWING    | SERIES          | DRAWING                | SERIES          | DRAWING  |              |  |  |  |   |  |  |  |
| C-SIZE  |   | 15018 | SEE CHART                            | GENERAL MARKET         |                   |            |                 |                        |                 |          |              |  |  |  |   |  |  |  |

0.50MM CENTER FLAT FLEX CABLE (FFC) (105°C, Au PLATED)

| "L" DIM. →     | 51 ± 2 MM  |           | 76 ± 3 MM  |           | 102 ± 3 MM |           | 127 ± 4 MM |           | 152 ± 4 MM |           | 178 ± 4 MM |           | 203 ± 4 MM |           | 229 ± 5 MM |           | 254 ± 5 MM  |           | 305 ± 5 MM  |           |
|----------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|-------------|-----------|-------------|-----------|
| REF DIM →      | (2 INCHES) |           | (3 INCHES) |           | (4 INCHES) |           | (5 INCHES) |           | (6 INCHES) |           | (7 INCHES) |           | (8 INCHES) |           | (9 INCHES) |           | (10 INCHES) |           | (12 INCHES) |           |
| CABLE TYPE →   | A          |           | D          |           | A          |           | D          |           | A          |           | D          |           | A          |           | D          |           | A           |           | D           |           |
| CIRCUITS "N" ↓ | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A           | D         | A           | D         |
| 7              | 150180747  | 150180746 | 150180749  | 150180748 | 150180751  | 150180750 | 150180753  | 150180752 | 150180755  | 150180754 | 150180757  | 150180756 | 150180759  | 150180758 | 150180761  | 150180760 | 150180763   | 150180762 | 150180765   | 150180764 |
| 9              | 150180769  | 150180768 | 150180771  | 150180770 | 150180773  | 150180772 | 150180775  | 150180774 | 150180777  | 150180776 | 150180779  | 150180778 | 150180781  | 150180780 | 150180783  | 150180782 | 150180785   | 150180784 | 150180787   | 150180786 |
| 11             | 150180791  | 150180790 | 150180793  | 150180792 | 150180795  | 150180794 | 150180797  | 150180796 | 150180799  | 150180798 | 150180801  | 150180800 | 150180803  | 150180802 | 150180805  | 150180804 | 150180807   | 150180806 | 150180809   | 150180808 |
| 13             | 150180813  | 150180812 | 150180815  | 150180814 | 150180817  | 150180816 | 150180819  | 150180818 | 150180821  | 150180820 | 150180823  | 150180822 | 150180825  | 150180824 | 150180827  | 150180826 | 150180829   | 150180828 | 150180831   | 150180830 |
| 15             | 150180835  | 150180834 | 150180837  | 150180836 | 150180839  | 150180838 | 150180841  | 150180840 | 150180843  | 150180842 | 150180845  | 150180844 | 150180847  | 150180846 | 150180849  | 150180848 | 150180851   | 150180850 | 150180853   | 150180852 |
| 17             | 150180857  | 150180856 | 150180859  | 150180858 | 150180861  | 150180860 | 150180863  | 150180862 | 150180865  | 150180864 | 150180867  | 150180866 | 150180869  | 150180868 | 150180871  | 150180870 | 150180873   | 150180872 | 150180875   | 150180874 |
| 19             | 150180879  | 150180878 | 150180881  | 150180880 | 150180883  | 150180882 | 150180885  | 150180884 | 150180887  | 150180886 | 150180889  | 150180888 | 150180891  | 150180890 | 150180893  | 150180892 | 150180895   | 150180894 | 150180897   | 150180896 |
| 21             | 150180901  | 150180900 | 150180903  | 150180902 | 150180905  | 150180904 | 150180907  | 150180906 | 150180909  | 150180908 | 150180911  | 150180910 | 150180913  | 150180912 | 150180915  | 150180914 | 150180917   | 150180916 | 150180919   | 150180918 |
| 23             | 150180923  | 150180922 | 150180925  | 150180924 | 150180927  | 150180926 | 150180929  | 150180928 | 150180931  | 150180930 | 150180933  | 150180932 | 150180935  | 150180934 | 150180937  | 150180936 | 150180939   | 150180938 | 150180941   | 150180940 |
| 25             | 150180945  | 150180944 | 150180947  | 150180946 | 150180949  | 150180948 | 150180951  | 150180950 | 150180953  | 150180952 | 150180955  | 150180954 | 150180957  | 150180956 | 150180959  | 150180958 | 150180961   | 150180960 | 150180963   | 150180962 |
| 27             | 150180967  | 150180966 | 150180969  | 150180968 | 150180971  | 150180970 | 150180973  | 150180972 | 150180975  | 150180974 | 150180977  | 150180976 | 150180979  | 150180978 | 150180981  | 150180980 | 150180983   | 150180982 | 150180985   | 150180984 |
| 29             | 150180989  | 150180988 | 150180991  | 150180990 | 150180993  | 150180992 | 150180995  | 150180994 | 150180997  | 150180996 | 150180999  | 150180998 | 150181001  | 150181000 | 150181003  | 150181002 | 150181005   | 150181004 | 150181007   | 150181006 |
| 31             | 150181011  | 150181010 | 150181013  | 150181012 | 150181015  | 150181014 | 150181017  | 150181016 | 150181019  | 150181018 | 150181021  | 150181020 | 150181023  | 150181022 | 150181025  | 150181024 | 150181027   | 150181026 | 150181029   | 150181028 |
| 33             | 150181033  | 150181032 | 150181035  | 150181034 | 150181037  | 150181036 | 150181039  | 150181038 | 150181041  | 150181040 | 150181043  | 150181042 | 150181045  | 150181044 | 150181047  | 150181046 | 150181049   | 150181048 | 150181051   | 150181050 |
| 35             | 150181055  | 150181054 | 150181057  | 150181056 | 150181059  | 150181058 | 150181061  | 150181060 | 150181063  | 150181062 | 150181065  | 150181064 | 150181067  | 150181066 | 150181069  | 150181068 | 150181071   | 150181070 | 150181073   | 150181072 |
| 37             | 150181077  | 150181076 | 150181079  | 150181078 | 150181081  | 150181080 | 150181083  | 150181082 | 150181085  | 150181084 | 150181087  | 150181086 | 150181089  | 150181088 | 150181091  | 150181090 | 150181093   | 150181092 | 150181095   | 150181094 |
| 39             | 150181099  | 150181098 | 150181101  | 150181100 | 150181103  | 150181102 | 150181105  | 150181104 | 150181107  | 150181106 | 150181109  | 150181108 | 150181111  | 150181110 | 150181113  | 150181112 | 150181115   | 150181114 | 150181117   | 150181116 |
| 41             | 150181121  | 150181120 | 150181123  | 150181122 | 150181125  | 150181124 | 150181127  | 150181126 | 150181129  | 150181128 | 150181131  | 150181130 | 150181133  | 150181132 | 150181135  | 150181134 | 150181137   | 150181136 | 150181139   | 150181138 |
| 43             | 150181143  | 150181142 | 150181145  | 150181144 | 150181147  | 150181146 | 150181149  | 150181148 | 150181151  | 150181150 | 150181153  | 150181152 | 150181155  | 150181154 | 150181157  | 150181156 | 150181159   | 150181158 | 150181161   | 150181160 |
| 45             | 150181165  | 150181164 | 150181167  | 150181166 | 150181169  | 150181168 | 150181171  | 150181170 | 150181173  | 150181172 | 150181175  | 150181174 | 150181177  | 150181176 | 150181179  | 150181178 | 150181181   | 150181180 | 150181183   | 150181182 |
| 47             | 150181187  | 150181186 | 150181189  | 150181188 | 150181191  | 150181190 | 150181193  | 150181192 | 150181195  | 150181194 | 150181197  | 150181196 | 150181199  | 150181198 | 150181201  | 150181200 | 150181203   | 150181202 | 150181205   | 150181204 |
| 49             | 150181209  | 150181208 | 150181211  | 150181210 | 150181213  | 150181212 | 150181215  | 150181214 | 150181217  | 150181216 | 150181219  | 150181218 | 150181221  | 150181220 | 150181223  | 150181222 | 150181225   | 150181224 | 150181227   | 150181226 |



**NOTES:**  
 1. NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.  
 2. CABLES MATE WITH MOLEX FFC/FPC CONNECTOR SERIES # 505110

|  |   |                        |       |  |   |               |  |                          |  |                      |  |
|--|---|------------------------|-------|--|---|---------------|--|--------------------------|--|----------------------|--|
| FUNCTIONAL SYMBOLS                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |       |  |   |               |  |                          |  |                      |  |
|  | DIMENSION UNITS   |                        | SCALE |  | CURRENT REV DESC: DRAWING CORRECTION  |               |  |                          |  |                      |  |
|  | MM  |                        | NA    |  | EC NO: 728054<br>DRWN: DIEGOG7 2022/11/10<br>CHK'D: JSMITH11 2022/11/14<br>APPR: JSMITH11 2022/11/14<br>INITIAL REVISION:<br>DRWN: MSHANNON 2019/03/13<br>APPR: DENGLISH 2019/09/25 |               |  |                          |  |                      |  |
|  | GENERAL TOLERANCES (UNLESS SPECIFIED)   |                        |       |  |   |               |  |                          |  |                      |  |
| mm   |   | INCH                   |       | DOCUMENT NUMBER: SD-15018-001<br>DOC TYPE: PSD<br>DOC PART: 001<br>REVISION: C |   |               |  |                          |  |                      |  |
| 4 PLACES ±----                                       |   | ±----                  |       | PRODUCT CUSTOMER DRAWING   |   |               |  |                          |  |                      |  |
| 3 PLACES ±----                                       |   | ±----                  |       | DOCUMENT NUMBER: SD-15018-001  |   |               |  |                          |  |                      |  |
| 2 PLACES ±----                                       |   | ±----                  |       | DOC TYPE: PSD  |   |               |  |                          |  |                      |  |
| 1 PLACE ±----  |   | ±----                  |       | DOC PART: 001  |   |               |  |                          |  |                      |  |
| 0 PLACES ±----                                       |   | ±----                  |       | REVISION: C  |   |               |  |                          |  |                      |  |
| ANGULAR TOL ± 0.5 °                                  |   |                        |       | MATERIAL NUMBER: SEE CHART   |   |               |  |                          |  |                      |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |   | THIRD ANGLE PROJECTION |       | DRAWING: C-SIZE  |   | SERIES: 15018 |  | CUSTOMER: GENERAL MARKET |  | SHEET NUMBER: 2 OF 2 |  |