

0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, Sn PLATED)

| "L" DIM. →   | 30 ± 2 MM   |           | 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 →    | (1.18 INCH) |           | (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           |           | A           |           |
| CIRCUITS ↓   | A           | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A           | D         | A           | D         |
| 6            | 151660051   | 151660052 | 151660053  | 151660054 | 151660055  | 151660056 | 151660057  | 151660058 | 151660059  | 151660060 | 151660061  | 151660062 | 151660063  | 151660064 | 151660065  | 151660066 | 151660067  | 151660068 | 151660069   | 151660070 | 151660071   | 151660072 |
| 8            | 151660073   | 151660074 | 151660075  | 151660076 | 151660077  | 151660078 | 151660079  | 151660080 | 151660081  | 151660082 | 151660083  | 151660084 | 151660085  | 151660086 | 151660087  | 151660088 | 151660089  | 151660090 | 151660091   | 151660092 | 151660093   | 151660094 |
| 10           | 151660095   | 151660096 | 151660097  | 151660098 | 151660099  | 151660100 | 151660101  | 151660102 | 151660103  | 151660104 | 151660105  | 151660106 | 151660107  | 151660108 | 151660109  | 151660110 | 151660111  | 151660112 | 151660113   | 151660114 | 151660115   | 151660116 |
| 12           | 151660117   | 151660118 | 151660119  | 151660120 | 151660121  | 151660122 | 151660123  | 151660124 | 151660125  | 151660126 | 151660127  | 151660128 | 151660129  | 151660130 | 151660131  | 151660132 | 151660133  | 151660134 | 151660135   | 151660136 | 151660137   | 151660138 |
| 14           | 151660139   | 151660140 | 151660141  | 151660142 | 151660143  | 151660144 | 151660145  | 151660146 | 151660147  | 151660148 | 151660149  | 151660150 | 151660151  | 151660152 | 151660153  | 151660154 | 151660155  | 151660156 | 151660157   | 151660158 | 151660159   | 151660160 |
| 16           | 151660161   | 151660162 | 151660163  | 151660164 | 151660165  | 151660166 | 151660167  | 151660168 | 151660169  | 151660170 | 151660171  | 151660172 | 151660173  | 151660174 | 151660175  | 151660176 | 151660177  | 151660178 | 151660179   | 151660180 | 151660181   | 151660182 |
| 18           | 151660183   | 151660184 | 151660185  | 151660186 | 151660187  | 151660188 | 151660189  | 151660190 | 151660191  | 151660192 | 151660193  | 151660194 | 151660195  | 151660196 | 151660197  | 151660198 | 151660199  | 151660200 | 151660201   | 151660202 | 151660203   | 151660204 |
| 20           | 151660205   | 151660206 | 151660207  | 151660208 | 151660209  | 151660210 | 151660211  | 151660212 | 151660213  | 151660214 | 151660215  | 151660216 | 151660217  | 151660218 | 151660219  | 151660220 | 151660221  | 151660222 | 151660223   | 151660224 | 151660225   | 151660226 |
| 22           | 151660227   | 151660228 | 151660229  | 151660230 | 151660231  | 151660232 | 151660233  | 151660234 | 151660235  | 151660236 | 151660237  | 151660238 | 151660239  | 151660240 | 151660241  | 151660242 | 151660243  | 151660244 | 151660245   | 151660246 | 151660247   | 151660248 |
| 24           | 151660249   | 151660250 | 151660251  | 151660252 | 151660253  | 151660254 | 151660255  | 151660256 | 151660257  | 151660258 | 151660259  | 151660260 | 151660261  | 151660262 | 151660263  | 151660264 | 151660265  | 151660266 | 151660267   | 151660268 | 151660269   | 151660270 |
| 26           | 151660271   | 151660272 | 151660273  | 151660274 | 151660275  | 151660276 | 151660277  | 151660278 | 151660279  | 151660280 | 151660281  | 151660282 | 151660283  | 151660284 | 151660285  | 151660286 | 151660287  | 151660288 | 151660289   | 151660290 | 151660291   | 151660292 |
| 28           | 151660293   | 151660294 | 151660295  | 151660296 | 151660297  | 151660298 | 151660299  | 151660300 | 151660301  | 151660302 | 151660303  | 151660304 | 151660305  | 151660306 | 151660307  | 151660308 | 151660309  | 151660310 | 151660311   | 151660312 | 151660313   | 151660314 |
| 30           | 151660315   | 151660316 | 151660317  | 151660318 | 151660319  | 151660320 | 151660321  | 151660322 | 151660323  | 151660324 | 151660325  | 151660326 | 151660327  | 151660328 | 151660329  | 151660330 | 151660331  | 151660332 | 151660333   | 151660334 | 151660335   | 151660336 |
| 32           | 151660337   | 151660338 | 151660339  | 151660340 | 151660341  | 151660342 | 151660343  | 151660344 | 151660345  | 151660346 | 151660347  | 151660348 | 151660349  | 151660350 | 151660351  | 151660352 | 151660353  | 151660354 | 151660355   | 151660356 | 151660357   | 151660358 |
| 34           | 151660359   | 151660360 | 151660361  | 151660362 | 151660363  | 151660364 | 151660365  | 151660366 | 151660367  | 151660368 | 151660369  | 151660370 | 151660371  | 151660372 | 151660373  | 151660374 | 151660375  | 151660376 | 151660377   | 151660378 | 151660379   | 151660380 |
| 36           | 151660381   | 151660382 | 151660383  | 151660384 | 151660385  | 151660386 | 151660387  | 151660388 | 151660389  | 151660390 | 151660391  | 151660392 | 151660393  | 151660394 | 151660395  | 151660396 | 151660397  | 151660398 | 151660399   | 151660400 | 151660401   | 151660402 |
| 38           | 151660403   | 151660404 | 151660405  | 151660406 | 151660407  | 151660408 | 151660409  | 151660410 | 151660411  | 151660412 | 151660413  | 151660414 | 151660415  | 151660416 | 151660417  | 151660418 | 151660419  | 151660420 | 151660421   | 151660422 | 151660423   | 151660424 |
| 40           | 151660425   | 151660426 | 151660427  | 151660428 | 151660429  | 151660430 | 151660431  | 151660432 | 151660433  | 151660434 | 151660435  | 151660436 | 151660437  | 151660438 | 151660439  | 151660440 | 151660441  | 151660442 | 151660443   | 151660444 | 151660445   | 151660446 |
| 42           | 151660447   | 151660448 | 151660449  | 151660450 | 151660451  | 151660452 | 151660453  | 151660454 | 151660455  | 151660456 | 151660457  | 151660458 | 151660459  | 151660460 | 151660461  | 151660462 | 151660463  | 151660464 | 151660465   | 151660466 | 151660467   | 151660468 |
| 44           | 151660469   | 151660470 | 151660471  | 151660472 | 151660473  | 151660474 | 151660475  | 151660476 | 151660477  | 151660478 | 151660479  | 151660480 | 151660481  | 151660482 | 151660483  | 151660484 | 151660485  | 151660486 | 151660487   | 151660488 | 151660489   | 151660490 |
| 46           | 151660491   | 151660492 | 151660493  | 151660494 | 151660495  | 151660496 | 151660497  | 151660498 | 151660499  | 151660500 | 151660501  | 151660502 | 151660503  | 151660504 | 151660505  | 151660506 | 151660507  | 151660508 | 151660509   | 151660510 | 151660511   | 151660512 |
| 48           | 151660513   | 151660514 | 151660515  | 151660516 | 151660517  | 151660518 | 151660519  | 151660520 | 151660521  | 151660522 | 151660523  | 151660524 | 151660525  | 151660526 | 151660527  | 151660528 | 151660529  | 151660530 | 151660531   | 151660532 | 151660533   | 151660534 |
| 50           | 151660535   | 151660536 | 151660537  | 151660538 | 151660539  | 151660540 | 151660541  | 151660542 | 151660543  | 151660544 | 151660545  | 151660546 | 151660547  | 151660548 | 151660549  | 151660550 | 151660551  | 151660552 | 151660553   | 151660554 | 151660555   | 151660556 |



**NOTES:**  
 1. NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.  
 2. FOR ODD CIRCUIT COUNT, CROSS-SECTION AND END-TAIL DETAIL REFER TO SHEET # 2

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   | 2:1          |                                      |                            |
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |              | EC NO: 728054                        |                            |
|  | mm           | INCH                                 |                            |
| 4 PLACES   | ±----        | ±----                                | DRWN: DIEGOG7 2022/11/10   |
| 3 PLACES   | ±----        | ±----                                | CHK'D: JSMITH11 2022/11/14 |
| 2 PLACES   | ±----        | ±----                                | APPR: JSMITH11 2022/11/14  |
| 1 PLACE  | ±----        | ±----                                | INITIAL REVISION:          |
| 0 PLACES   | ±----        | ±----                                | DRWN: JLWOLFSB 2011/10/27  |
| ANGULAR TOL ± 0.5 °                                  |              | APPR: SFULTON 2011/11/03             |                            |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |              | THIRD ANGLE PROJECTION               | DRAWING                    |
|  |              | C-SIZE                               | SERIES                     |
|  |              |                                      | 15166                      |
| DOCUMENT STATUS                                      |              | MATERIAL NUMBER                      | CUSTOMER                   |
| P1   | RELEASE DATE | SEE CHART                            | GENERAL MARKET             |
| 2022/11/14   | 14:34:44     | SHEET NUMBER                         |                            |
|  |              | 1 OF 2                               |                            |

**molex**  
 0.50MM CENTER FLAT FLEX CABLE (FFC)  
 (EXTRA FLEXIBLE, 105°C, SN PLATED) SALES DRAWING  
 PRODUCT CUSTOMER DRAWING  
 DOCUMENT NUMBER: SD-15166-001  
 DOC TYPE: PSD  
 DOC PART: 001  
 REVISION: B

0.50MM CENTER FLAT FLEX CABLE (FFC) (EXTRA FLEXIBLE, 105°C, Sn PLATED)

| "L" DIM. →   | 30 ± 2 MM   |           | 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 →    | (1.18 INCH) |           | (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           |           | A           |           | D |  |
| CIRCUITS ↓   | A           | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A          | D         | A           | D         | A           | D         |   |  |
| 7            | 151660745   | 151660744 | 151660747  | 151660746 | 151660749  | 151660748 | 151660751  | 151660750 | 151660753  | 151660752 | 151660755  | 151660754 | 151660757  | 151660756 | 151660759  | 151660758 | 151660761  | 151660760 | 151660763   | 151660762 | 151660765   | 151660764 |   |  |
| 9            | 151660767   | 151660766 | 151660769  | 151660768 | 151660771  | 151660770 | 151660773  | 151660772 | 151660775  | 151660774 | 151660777  | 151660776 | 151660779  | 151660778 | 151660781  | 151660780 | 151660783  | 151660782 | 151660785   | 151660784 | 151660787   | 151660786 |   |  |
| 11           | 151660789   | 151660788 | 151660791  | 151660790 | 151660793  | 151660792 | 151660795  | 151660794 | 151660797  | 151660796 | 151660799  | 151660798 | 151660801  | 151660800 | 151660803  | 151660802 | 151660805  | 151660804 | 151660807   | 151660806 | 151660809   | 151660808 |   |  |
| 13           | 151660811   | 151660810 | 151660813  | 151660812 | 151660815  | 151660814 | 151660817  | 151660816 | 151660819  | 151660818 | 151660821  | 151660820 | 151660823  | 151660822 | 151660825  | 151660824 | 151660827  | 151660826 | 151660829   | 151660828 | 151660831   | 151660830 |   |  |
| 15           | 151660833   | 151660832 | 151660835  | 151660834 | 151660837  | 151660836 | 151660839  | 151660838 | 151660841  | 151660840 | 151660843  | 151660842 | 151660845  | 151660844 | 151660847  | 151660846 | 151660849  | 151660848 | 151660851   | 151660850 | 151660853   | 151660852 |   |  |
| 17           | 151660855   | 151660854 | 151660857  | 151660856 | 151660859  | 151660858 | 151660861  | 151660860 | 151660863  | 151660862 | 151660865  | 151660864 | 151660867  | 151660866 | 151660869  | 151660868 | 151660871  | 151660870 | 151660873   | 151660872 | 151660875   | 151660874 |   |  |
| 19           | 151660877   | 151660876 | 151660879  | 151660878 | 151660881  | 151660880 | 151660883  | 151660882 | 151660885  | 151660884 | 151660887  | 151660886 | 151660889  | 151660888 | 151660891  | 151660890 | 151660893  | 151660892 | 151660895   | 151660894 | 151660897   | 151660896 |   |  |
| 21           | 151660899   | 151660898 | 151660901  | 151660900 | 151660903  | 151660902 | 151660905  | 151660904 | 151660907  | 151660906 | 151660909  | 151660908 | 151660911  | 151660910 | 151660913  | 151660912 | 151660915  | 151660914 | 151660917   | 151660916 | 151660919   | 151660918 |   |  |
| 23           | 151660921   | 151660920 | 151660923  | 151660922 | 151660925  | 151660924 | 151660927  | 151660926 | 151660929  | 151660928 | 151660931  | 151660930 | 151660933  | 151660932 | 151660935  | 151660934 | 151660937  | 151660936 | 151660939   | 151660938 | 151660941   | 151660940 |   |  |
| 25           | 151660943   | 151660942 | 151660945  | 151660944 | 151660947  | 151660946 | 151660949  | 151660948 | 151660951  | 151660950 | 151660953  | 151660952 | 151660955  | 151660954 | 151660957  | 151660956 | 151660959  | 151660958 | 151660961   | 151660960 | 151660963   | 151660962 |   |  |
| 27           | 151660965   | 151660964 | 151660967  | 151660966 | 151660969  | 151660968 | 151660971  | 151660970 | 151660973  | 151660972 | 151660975  | 151660974 | 151660977  | 151660976 | 151660979  | 151660978 | 151660981  | 151660980 | 151660983   | 151660982 | 151660985   | 151660984 |   |  |
| 29           | 151660987   | 151660986 | 151660989  | 151660988 | 151660991  | 151660990 | 151660993  | 151660992 | 151660995  | 151660994 | 151660997  | 151660996 | 151660999  | 151660998 | 151661001  | 151661000 | 151661003  | 151661002 | 151661005   | 151661004 | 151661007   | 151661006 |   |  |
| 31           | 151661009   | 151661008 | 151661011  | 151661010 | 151661013  | 151661012 | 151661015  | 151661014 | 151661017  | 151661016 | 151661019  | 151661018 | 151661021  | 151661020 | 151661023  | 151661022 | 151661025  | 151661024 | 151661027   | 151661026 | 151661029   | 151661028 |   |  |
| 33           | 151661031   | 151661030 | 151661033  | 151661032 | 151661035  | 151661034 | 151661037  | 151661036 | 151661039  | 151661038 | 151661041  | 151661040 | 151661043  | 151661042 | 151661045  | 151661044 | 151661047  | 151661046 | 151661049   | 151661048 | 151661051   | 151661050 |   |  |
| 35           | 151661053   | 151661052 | 151661055  | 151661054 | 151661057  | 151661056 | 151661059  | 151661058 | 151661061  | 151661060 | 151661063  | 151661062 | 151661065  | 151661064 | 151661067  | 151661066 | 151661069  | 151661068 | 151661071   | 151661070 | 151661073   | 151661072 |   |  |
| 37           | 151661075   | 151661074 | 151661077  | 151661076 | 151661079  | 151661078 | 151661081  | 151661080 | 982331083  | 151661082 | 151661085  | 151661084 | 151661087  | 151661086 | 151661089  | 151661088 | 151661091  | 151661090 | 151661093   | 151661092 | 151661095   | 151661094 |   |  |
| 39           | 151661097   | 151661096 | 151661099  | 151661098 | 151661101  | 151661100 | 151661103  | 151661102 | 151661105  | 151661104 | 151661107  | 151661106 | 151661109  | 151661108 | 151661111  | 151661110 | 151661113  | 151661112 | 151661115   | 151661114 | 151661117   | 151661116 |   |  |
| 41           | 151661119   | 151661118 | 151661121  | 151661120 | 151661123  | 151661122 | 151661125  | 151661124 | 151661127  | 151661126 | 151661129  | 151661128 | 151661131  | 151661130 | 151661133  | 151661132 | 151661135  | 151661134 | 151661137   | 151661136 | 151661139   | 151661138 |   |  |
| 43           | 151661141   | 151661140 | 151661143  | 151661142 | 151661145  | 151661144 | 151661147  | 151661146 | 151661149  | 151661148 | 151661151  | 151661150 | 151661153  | 151661152 | 151661155  | 151661154 | 151661157  | 151661156 | 151661159   | 151661158 | 151661161   | 151661160 |   |  |
| 45           | 151661163   | 151661162 | 151661165  | 151661164 | 151661167  | 151661166 | 151661169  | 151661168 | 151661171  | 151661170 | 151661173  | 151661172 | 151661175  | 151661174 | 151661177  | 151661176 | 151661179  | 151661178 | 151661181   | 151661180 | 151661183   | 151661182 |   |  |
| 47           | 151661185   | 151661184 | 151661187  | 151661186 | 151661189  | 151661188 | 151661191  | 151661190 | 151661193  | 151661192 | 151661195  | 151661194 | 151661197  | 151661196 | 151661199  | 151661198 | 15166201   | 15166200  | 15166203    | 15166202  | 15166205    | 15166204  |   |  |
| 49           | 151661207   | 151661206 | 151661209  | 151661208 | 151661211  | 151661210 | 151661213  | 151661212 | 151661215  | 151661214 | 151661217  | 151661216 | 151661219  | 151661218 | 151661221  | 151661220 | 151661223  | 151661222 | 151661225   | 151661224 | 151661227   | 151661226 |   |  |



CROSS-SECTION



END TAIL DETAIL  
SCALE 10:1

NOTES:

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|                                       |       |       |                        |                                      |                     |               |                   |   |                 |     |              |          |          |
|---------------------------------------|-------|-------|------------------------|--------------------------------------|---------------------|---------------|-------------------|---|-----------------|-----|--------------|----------|----------|
| DIMENSION UNITS                       |       | SCALE |                        | CURRENT REV DESC: DRAWING CORRECTION |                     |               |                   |   |                 |     |              |          |          |
| MM                                    |       | NA    |                        |                                      |                     |               |                   |   |                 |     |              |          |          |
| GENERAL TOLERANCES (UNLESS SPECIFIED) |       |       |                        |                                      |                     | EC NO: 728054 |                   | 0.50MM CENTER FLAT FLEX CABLE (FFC)<br>(EXTRA FLEXIBLE, 105°C, SN PLATED) SALES DRAWING |                 |     |              |          |          |
|                                       |       | mm    | INCH                   |                                      |                     |               |                   |   |                 |     |              |          |          |
| 4 PLACES                              | ±---- | ±---- |                        |                                      |                     |               | DRWN: DIEGOG7     |   | 2022/11/10      |     |              |          |          |
| 3 PLACES                              | ±---- | ±---- |                        |                                      |                     |               | CHK'D: JSMITH11   |   | 2022/11/14      |     |              |          |          |
| 2 PLACES                              | ±---- | ±---- |                        |                                      |                     |               | APPR: JSMITH11    |   | 2022/11/14      |     |              |          |          |
| 1 PLACE                               | ±---- | ±---- |                        |                                      |                     |               | INITIAL REVISION: |   |                 |     |              |          |          |
| 0 PLACES                              | ±---- | ±---- |                        |                                      |                     |               | DRWN: JLWOLFSB    |   | 2011/10/27      |     |              |          |          |
| ANGULAR TOL ± 0.5 °                   |       |       | THIRD ANGLE PROJECTION |                                      | DRAWING             |               | SERIES            |   | DOCUMENT NUMBER |     | DOC TYPE     | DOC PART | REVISION |
|                                       |       |       | C-SIZE                 |                                      | 15166               |               | SD-15166-001      |   | PSD             | 001 | B            |          |          |
| DOCUMENT STATUS                       |       | P1    | RELEASE DATE           |                                      | 2022/11/14 14:34:44 |               | MATERIAL NUMBER   |   | CUSTOMER        |     | SHEET NUMBER |          |          |
|                                       |       |       |                        |                                      |                     |               | SEE CHART         |   | GENERAL MARKET  |     | 2 OF 2       |          |          |