



12

11

10

9

8

7

6

5

4

3

2

1

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         | A          | D         | A          | D         | A          | D         | A           | D         | A           | D         |
| CIRCUITS "N" ↓ |             |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |            |           |             |           |             |           |
| 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 | 151661083  | 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 | 151661201  | 151661200 | 151661203   | 151661202 | 151661205   | 151661204 |
| 49             | 151661207   | 151661206 | 151661209  | 151661208 | 151661211  | 151661210 | 151661213  | 151661212 | 151661215  | 151661214 | 151661217  | 151661216 | 151661219  | 151661218 | 151661221  | 151661220 | 151661223  | 151661222 | 151661225   | 151661224 | 151661227   | 151661226 |

0.043 mm POLYESTER + ADHESIVE

0.035 mm COPPER

0.043 mm POLYESTER + ADHESIVE

0.226 mm POLYESTER

CROSS-SECTION

4.00±0.80

0.50±0.12

0.50±0.05

0.5 (N-1) ± 0.07

0.30±0.02

0.50 (N+1) ± 0.06

END TAIL DETAIL

SCALE 10:1

NOTES:

1. NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.

|                    |                                                                                                                                               |          |       |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|-------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------|--|-------------------------|--|---------------------|--|
| 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: PN 982331083 REPLACED WITH 151661083 |                                                                                                                                 |                |  | <div>molex</div> <div>0.50MM CENTER FLAT FLEX CABLE (FFC)<br/>(EXTRA FLEXIBLE, 105°C, SN PLATED) SALES DRAWING</div> |                                                                                                     |                           |  |                         |  |                     |  |
|                    | MM                                                                                                                                            |          | 2:1   |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |          |       |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | mm       | INCH  |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | 4 PLACES | ±---- | ±---- |                                                        | STATUS:Production<br>DRWN: DIEGO GOMEZ 2024-01-02<br>CHK'D: MATTHEW IMIG 2024-04-23<br>APPR: DAVID FALLA<br>ANGULAR TOL ± 0.5 ° |                |  |                                                                                                                      | PRODUCT SALES DRAWING<br>DOCUMENT NUMBER SD-15166-001<br>DOC TYPE PSD<br>DOC PART 001<br>REVISION E |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | 3 PLACES | ±---- |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | 2 PLACES | ±---- |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | 1 PLACE  | ±---- |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
|                    |                                                                                                                                               | 0 PLACES | ±---- |       |                                                        |                                                                                                                                 |                |  |                                                                                                                      |                                                                                                     |                           |  |                         |  |                     |  |
| DIVISIONAL SYMBOLS | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS                                                                                          |          |       |       | THIRD ANGLE PROJECTION                                 |                                                                                                                                 | DRAWING C-SIZE |  | SERIES 15166                                                                                                         |                                                                                                     | MATERIAL NUMBER 151660001 |  | CUSTOMER GENERAL MARKET |  | SHEET NUMBER 2 OF 2 |  |