



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------|-----------|---------------------------------------------------------------------------------------------------------------|-----------|-------------|-----------|-------------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11                                                                                                                                            | 10        | 9          | 8         | 7                                                                                                                                                                                  | 6         | 5          | 4         | 3          | 2         | 1                                                                                                                                                                                                                              |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0.50mm PITCH FLAT FLEXIBLE CABLE (SHIELDED, 105°C, Sn PLATING)                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| "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         | A                                                                                                                                                                                                                              | D                                           | A          | D         | A                                                                                                             | D         | A           | D         | A           | D         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CIRCUITS "N" ↓                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 153660747                                                                                                                                     | 153660746 | 153660749  | 153660748 | 153660751                                                                                                                                                                          | 153660750 | 153660753  | 153660752 | 153660755  | 153660754 | 153660757                                                                                                                                                                                                                      | 153660756                                   | 153660759  | 153660758 | 153660761                                                                                                     | 153660760 | 153660763   | 153660762 | 153660765   | 153660764 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 153660769                                                                                                                                     | 153660768 | 153660771  | 153660770 | 153660773                                                                                                                                                                          | 153660772 | 153660775  | 153660774 | 153660777  | 153660776 | 153660779                                                                                                                                                                                                                      | 153660778                                   | 153660781  | 153660780 | 153660783                                                                                                     | 153660782 | 153660785   | 153660784 | 153660787   | 153660786 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660791                                                                                                                                     | 153660790 | 153660793  | 153660792 | 153660795                                                                                                                                                                          | 153660794 | 153660797  | 153660796 | 153660799  | 153660798 | 153660801                                                                                                                                                                                                                      | 153660800                                   | 153660803  | 153660802 | 153660805                                                                                                     | 153660804 | 153660807   | 153660806 | 153660809   | 153660808 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660813                                                                                                                                     | 153660812 | 153660815  | 153660814 | 153660817                                                                                                                                                                          | 153660816 | 153660819  | 153660818 | 153660821  | 153660820 | 153660823                                                                                                                                                                                                                      | 153660822                                   | 153660825  | 153660824 | 153660827                                                                                                     | 153660826 | 153660829   | 153660828 | 153660831   | 153660830 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660835                                                                                                                                     | 153660834 | 153660837  | 153660836 | 153660839                                                                                                                                                                          | 153660838 | 153660841  | 153660840 | 153660843  | 153660842 | 153660845                                                                                                                                                                                                                      | 153660844                                   | 153660847  | 153660846 | 153660849                                                                                                     | 153660848 | 153660851   | 153660850 | 153660853   | 153660852 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660857                                                                                                                                     | 153660856 | 153660859  | 153660858 | 153660861                                                                                                                                                                          | 153660860 | 153660863  | 153660862 | 153660865  | 153660864 | 153660867                                                                                                                                                                                                                      | 153660866                                   | 153660869  | 153660868 | 153660871                                                                                                     | 153660870 | 153660873   | 153660872 | 153660875   | 153660874 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660879                                                                                                                                     | 153660878 | 153660881  | 153660880 | 153660883                                                                                                                                                                          | 153660882 | 153660885  | 153660884 | 153660887  | 153660886 | 153660889                                                                                                                                                                                                                      | 153660888                                   | 153660891  | 153660890 | 153660893                                                                                                     | 153660892 | 153660895   | 153660894 | 153660897   | 153660896 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660901                                                                                                                                     | 153660900 | 153660903  | 153660902 | 153660905                                                                                                                                                                          | 153660904 | 153660907  | 153660906 | 153660909  | 153660908 | 153660911                                                                                                                                                                                                                      | 153660910                                   | 153660913  | 153660912 | 153660915                                                                                                     | 153660914 | 153660917   | 153660916 | 153660919   | 153660918 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660923                                                                                                                                     | 153660922 | 153660925  | 153660924 | 153660927                                                                                                                                                                          | 153660926 | 153660929  | 153660928 | 153660931  | 153660930 | 153660933                                                                                                                                                                                                                      | 153660932                                   | 153660935  | 153660934 | 153660937                                                                                                     | 153660936 | 153660939   | 153660938 | 153660941   | 153660940 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660945                                                                                                                                     | 153660944 | 153660947  | 153660946 | 153660949                                                                                                                                                                          | 153660948 | 153660951  | 153660950 | 153660953  | 153660952 | 153660955                                                                                                                                                                                                                      | 153660954                                   | 153660957  | 153660956 | 153660959                                                                                                     | 153660958 | 153660961   | 153660960 | 153660963   | 153660962 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660967                                                                                                                                     | 153660966 | 153660969  | 153660968 | 153660971                                                                                                                                                                          | 153660970 | 153660973  | 153660972 | 153660975  | 153660974 | 153660977                                                                                                                                                                                                                      | 153660976                                   | 153660979  | 153660978 | 153660981                                                                                                     | 153660980 | 153660983   | 153660982 | 153660985   | 153660984 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153660989                                                                                                                                     | 153660988 | 153660991  | 153660990 | 153660993                                                                                                                                                                          | 153660992 | 153660995  | 153660994 | 153660997  | 153660996 | 153660999                                                                                                                                                                                                                      | 153660998                                   | 153661001  | 153661000 | 153661003                                                                                                     | 153661002 | 153661005   | 153661004 | 153661007   | 153661006 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661011                                                                                                                                     | 153661010 | 153661013  | 153661012 | 153661015                                                                                                                                                                          | 153661014 | 153661017  | 153661016 | 153661019  | 153661018 | 153661021                                                                                                                                                                                                                      | 153661020                                   | 153661023  | 153661022 | 153661025                                                                                                     | 153661024 | 153661027   | 153661026 | 153661029   | 153661028 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661033                                                                                                                                     | 153661032 | 153661035  | 153661034 | 153661037                                                                                                                                                                          | 153661036 | 153661039  | 153661038 | 153661041  | 153661040 | 153661043                                                                                                                                                                                                                      | 153661042                                   | 153661045  | 153661044 | 153661047                                                                                                     | 153661046 | 153661049   | 153661048 | 153661051   | 153661050 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661055                                                                                                                                     | 153661054 | 153661057  | 153661056 | 153661059                                                                                                                                                                          | 153661058 | 153661061  | 153661060 | 153661063  | 153661062 | 153661065                                                                                                                                                                                                                      | 153661064                                   | 153661067  | 153661066 | 153661069                                                                                                     | 153661068 | 153661071   | 153661070 | 153661073   | 153661072 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661077                                                                                                                                     | 153661076 | 153661079  | 153661078 | 153661081                                                                                                                                                                          | 153661080 | 982331083  | 153661082 | 153661085  | 153661084 | 153661087                                                                                                                                                                                                                      | 153661086                                   | 153661089  | 153661088 | 153661091                                                                                                     | 153661090 | 153661093   | 153661092 | 153661095   | 153661094 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661099                                                                                                                                     | 153661098 | 153661101  | 153661100 | 153661103                                                                                                                                                                          | 153661102 | 153661105  | 153661104 | 153661107  | 153661106 | 153661109                                                                                                                                                                                                                      | 153661108                                   | 153661111  | 153661110 | 153661113                                                                                                     | 153661112 | 153661115   | 153661114 | 153661117   | 153661116 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661121                                                                                                                                     | 153661120 | 153661123  | 153661122 | 153661125                                                                                                                                                                          | 153661124 | 153661127  | 153661126 | 153661129  | 153661128 | 153661131                                                                                                                                                                                                                      | 153661130                                   | 153661133  | 153661132 | 153661135                                                                                                     | 153661134 | 153661137   | 153661136 | 153661139   | 153661138 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661143                                                                                                                                     | 153661142 | 153661145  | 153661144 | 153661147                                                                                                                                                                          | 153661146 | 153661149  | 153661148 | 153661151  | 153661150 | 153661153                                                                                                                                                                                                                      | 153661152                                   | 153661155  | 153661154 | 153661157                                                                                                     | 153661156 | 153661159   | 153661158 | 153661161   | 153661160 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661165                                                                                                                                     | 153661164 | 153661167  | 153661166 | 153661169                                                                                                                                                                          | 153661168 | 153661171  | 153661170 | 153661173  | 153661172 | 153661175                                                                                                                                                                                                                      | 153661174                                   | 153661177  | 153661176 | 153661179                                                                                                     | 153661178 | 153661181   | 153661180 | 153661183   | 153661182 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661187                                                                                                                                     | 153661186 | 153661189  | 153661188 | 153661191                                                                                                                                                                          | 153661190 | 153661193  | 153661192 | 153661195  | 153661194 | 153661197                                                                                                                                                                                                                      | 153661196                                   | 153661199  | 153661198 | 153661201                                                                                                     | 153661200 | 153661203   | 153661202 | 153661205   | 153661204 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153661209                                                                                                                                     | 153661208 | 153661211  | 153661210 | 153661213                                                                                                                                                                          | 153661212 | 153661215  | 153661214 | 153661217  | 153661216 | 153661219                                                                                                                                                                                                                      | 153661218                                   | 153661221  | 153661220 | 153661223                                                                                                     | 153661222 | 153661225   | 153661224 | 153661227   | 153661226 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <div><div><div><div>0.034 mm ALUMINUM TAPE (CABLE WRAPPED)</div><div><div>0.043 mm POLYESTER + ADHESIVE</div><div>0.05 mm COPPER</div><div>0.043 mm POLYESTER + ADHESIVE</div></div><div>0.226 mm REINFORCEMENT TAPE</div></div><div><div>(N+3) x 0.50 MAX</div><div>END-TAIL DIMENSIONS<br/>SCALE 10:1</div></div><div><div>0.50±0.05</div><div>(N-1) x 0.50 ± 0.07</div><div>0.30±0.02</div><div>0.50±0.12</div><div>(N+1) x 0.50 ± 0.06</div></div></div></div> |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CROSS-SECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           | NOTES:<br>1. NO PRINTING ON JUMPER CABLE UNLESS OTHERWISE SPECIFIED. IF PRINTING IS REQUIRED, THEN IT WOULD BE CONSIDERED A SPECIAL JUMPER CABLE.<br>2. CABLES MATE WITH MOLEX FFC/FPC CONNECTOR SERIES # 52745, 52746 & 52559 |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FUNCTIONAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                | CURRENT REV DESC: 4 CKTS ROW ADDED TO CHART |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | DIMENSION UNITS                                                                                                                               |           | SCALE      |           | STATUS:Production<br>DRWN: DIEGO ANDRES GOMEZ 2023-07-27<br>CHK'D: MATTHEW IMIG 2023-08-08<br>APPR: DAVID FALLA 2023-08-08<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           | <div>molex</div> <div>0.50MM CENTER FLAT FLEXIBLE CABLE<br/>(SHIELDED, 105°C, SN PLATING) SALES DRAWING</div> |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mm                                                                                                                                            |           | 2:1        |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIVISIONAL SYMBOLS                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |           |            |           |                                                                                                                                                                                    |           |            |           |            |           |                                                                                                                                                                                                                                |                                             |            |           |                                                                                                               |           |             |           |             |           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |