



|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------|-----------|------------|-----------|-------------|-----------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|--|--|--|--|--|--|--|
| 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><div></div><div>0.034 mm ALUMINUM TAPE (CABLE WRAPPED)</div></div><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></div> |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                | <div><div><div>(N+3) x 0.50 MAX</div><div>END-TAIL DIMENSIONS<br/>SCALE 10:1</div></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><div>(N+1) x 0.50 ± 0.06</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      |           |            |           | <div><div>0.50mm CENTER FLAT FLEXIBLE CABLE<br/>(SHIELDED, 105°C, SN PLATING) SALES DRAWING</div><div>PRODUCT SALES DRAWING</div><div><div>DOCUMENT NUMBER</div><div>153660001</div><div>DOC TYPE</div><div>PSD</div><div>DOC PART</div><div>001</div><div>REVISION</div><div>E</div></div><div><div>MATERIAL NUMBER</div><div>153660001</div><div>CUSTOMER</div><div>GENERAL MARKET</div><div>SHEET NUMBER</div><div>2 OF 2</div></div></div> |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               | mm                                                                                                                                            |           |            |           | 2:1        |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               | GENERAL TOLERANCES (UNLESS SPECIFIED)                                                                                                         |           |            |           |            |           |            |           | STATUS:Production                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                                                                                                                                                                                                                                |           | DRWN: DIEGO ANDRES GOMEZ 2023-07-27 |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           | CHK'D: MATTHEW IMIG 2023-08-08      |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           | APPR: DAVID FALLA 2023-08-08        |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
| DIVISIONAL SYMBOLS                                                                                                                                                                                                                                                            |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                | THIRD ANGLE PROJECTION |                                                                                                                                                                                                                                |           |                                     | DRAWING   |            | SERIES    |             | MATERIAL NUMBER |             | CUSTOMER       |                                                                                                                                                                                                                                              | SHEET NUMBER |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     | C-SIZE    |            | 15366     |             | 153660001       |             | GENERAL MARKET |                                                                                                                                                                                                                                              | 2 OF 2       |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                               |                                                                                                                                               |           |            |           |            |           |            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                                                                                                                                                                                                                                |           |                                     |           |            |           |             |                 |             |                |                                                                                                                                                                                                                                              |              |  |  |  |  |  |  |  |  |