

TIW(TRIPLE INSULATED WIRE)**Product description:**

Triple Insulated Wires "TIW" save insulation tape or barrier tape between the primary and secondary coils and contribute to realize size and cost reduction or high efficiency of transformers.

Product applications:

Applied Commercial Devices & Instruments
 SMPS for units of Printer
 Facsimile
 Memory
 Computer
 Monitor
 Inverter
 Game Machine
 Battery Charger for assemblies of Digital Camera
 Portable Telephone
 8mm VCR AC Adapter
 Personal Computer

**TECHNICAL DATA FOR LITZ TIW WIRE**

| Nominal Diameter | No of strands | Cross section of conductor | Resistance at 20 °C | | | Outer diameter for litz wire | | | | Outer diameter for TIW wire | | | |
|------------------|---------------|----------------------------|---------------------|---------|---------|------------------------------|-------|--------|-------|-----------------------------|-------|--------|-------|
| | | | | | | Grade1 | | Grade2 | | Grade1 | | Grade2 | |
| | | | nom | min | max | min | max | min | max | min | max | min | max |
| [mm] | # | [mm ²] | [Ohm/m] | [Ohm/m] | [Ohm/m] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] |
| 0.04 | 4 | 0.005 | 3.4688 | 3.1322 | 3.8051 | 0.11 | 0.123 | 0.125 | 0.135 | 0.31 | 0.34 | 0.325 | 0.352 |
| 0.04 | 8 | 0.0101 | 1.7344 | 1.5661 | 1.9026 | 0.156 | 0.173 | 0.177 | 0.191 | 0.356 | 0.39 | 0.377 | 0.408 |
| 0.04 | 10 | 0.0126 | 1.3875 | 1.2529 | 1.522 | 0.174 | 0.194 | 0.198 | 0.213 | 0.374 | 0.411 | 0.398 | 0.43 |
| 0.04 | 15 | 0.0188 | 0.925 | 0.8352 | 1.0147 | 0.215 | 0.239 | 0.244 | 0.264 | 0.415 | 0.456 | 0.444 | 0.481 |
| 0.04 | 20 | 0.0251 | 0.6938 | 0.6264 | 0.761 | 0.25 | 0.279 | 0.284 | 0.307 | 0.45 | 0.496 | 0.484 | 0.524 |
| 0.04 | 25 | 0.0314 | 0.555 | 0.5011 | 0.6088 | 0.282 | 0.314 | 0.32 | 0.346 | 0.482 | 0.531 | 0.52 | 0.563 |
| 0.04 | 30 | 0.0377 | 0.4625 | 0.4176 | 0.5073 | 0.308 | 0.344 | 0.351 | 0.379 | 0.508 | 0.561 | 0.551 | 0.596 |
| 0.04 | 35 | 0.044 | 0.3964 | 0.358 | 0.4349 | 0.333 | 0.371 | 0.379 | 0.409 | 0.533 | 0.588 | 0.579 | 0.626 |
| 0.04 | 45 | 0.0565 | 0.3083 | 0.2784 | 0.3382 | 0.378 | 0.421 | 0.429 | 0.464 | 0.578 | 0.638 | 0.629 | 0.681 |
| 0.04 | 60 | 0.0754 | 0.2358 | 0.2129 | 0.2586 | 0.436 | 0.486 | 0.496 | 0.535 | 0.636 | 0.703 | 0.696 | 0.752 |
| 0.04 | 75 | 0.0942 | 0.1886 | 0.1703 | 0.2069 | 0.488 | 0.543 | 0.554 | 0.599 | 0.688 | 0.76 | 0.754 | 0.816 |
| 0.04 | 90 | 0.1131 | 0.1572 | 0.1419 | 0.1724 | 0.534 | 0.595 | 0.607 | 0.656 | 0.734 | 0.812 | 0.807 | 0.873 |
| 0.04 | 105 | 0.1319 | 0.1347 | 0.1217 | 0.1478 | 0.577 | 0.643 | 0.656 | 0.708 | 0.777 | 0.86 | 0.856 | 0.925 |
| 0.04 | 180 | 0.2262 | 0.0801 | 0.0723 | 0.0879 | 0.756 | 0.841 | 0.859 | 0.927 | 0.956 | 1.058 | 1.059 | 1.144 |
| 0.04 | 225 | 0.2827 | 0.0641 | 0.0579 | 0.0703 | 0.845 | 0.941 | 0.96 | 1.037 | 1.045 | 1.158 | 1.16 | 1.254 |
| 0.04 | 270 | 0.3393 | 0.0534 | 0.0482 | 0.0586 | 0.925 | 1.031 | 1.052 | 1.136 | 1.125 | 1.248 | 1.252 | 1.353 |
| 0.04 | 600 | 0.754 | 0.024 | 0.0217 | 0.0264 | 1.38 | 1.536 | 1.568 | 1.693 | 1.58 | 1.753 | 1.768 | 1.91 |
| 0.04 | 800 | 1.0053 | 0.018 | 0.0163 | 0.0198 | 1.593 | 1.774 | 1.81 | 1.955 | 1.793 | 1.991 | 2.01 | 2.172 |
| 0.04 | 1000 | 1.2566 | 0.0144 | 0.013 | 0.0158 | 1.781 | 1.983 | 2.024 | 2.186 | 1.981 | 2.2 | 2.224 | 2.403 |
| 0.05 | 4 | 0.0079 | 2.22 | 2.0202 | 2.4198 | 0.138 | 0.15 | 0.153 | 0.165 | 0.338 | 0.367 | 0.353 | 0.382 |
| 0.05 | 8 | 0.0157 | 1.11 | 1.0101 | 1.2099 | 0.194 | 0.212 | 0.216 | 0.233 | 0.394 | 0.429 | 0.416 | 0.45 |
| 0.05 | 10 | 0.0196 | 0.888 | 0.8081 | 0.9679 | 0.217 | 0.237 | 0.241 | 0.261 | 0.417 | 0.454 | 0.441 | 0.478 |
| 0.05 | 15 | 0.0295 | 0.592 | 0.5387 | 0.6453 | 0.268 | 0.293 | 0.298 | 0.322 | 0.468 | 0.51 | 0.498 | 0.539 |
| 0.05 | 20 | 0.0393 | 0.444 | 0.404 | 0.484 | 0.312 | 0.341 | 0.346 | 0.375 | 0.512 | 0.558 | 0.546 | 0.592 |
| 0.05 | 25 | 0.0491 | 0.3552 | 0.3232 | 0.3872 | 0.352 | 0.384 | 0.39 | 0.422 | 0.552 | 0.601 | 0.59 | 0.639 |
| 0.05 | 30 | 0.0589 | 0.296 | 0.2694 | 0.3226 | 0.386 | 0.421 | 0.428 | 0.463 | 0.586 | 0.638 | 0.628 | 0.68 |
| 0.05 | 35 | 0.0687 | 0.2537 | 0.2309 | 0.2765 | 0.416 | 0.454 | 0.462 | 0.5 | 0.616 | 0.671 | 0.662 | 0.717 |
| 0.05 | 45 | 0.0884 | 0.1973 | 0.1796 | 0.2151 | 0.472 | 0.515 | 0.524 | 0.567 | 0.672 | 0.732 | 0.724 | 0.784 |
| 0.05 | 60 | 0.1178 | 0.1509 | 0.1373 | 0.1645 | 0.545 | 0.595 | 0.605 | 0.654 | 0.745 | 0.812 | 0.805 | 0.871 |
| 0.05 | 75 | 0.1473 | 0.1207 | 0.1099 | 0.1316 | 0.61 | 0.665 | 0.676 | 0.732 | 0.81 | 0.882 | 0.876 | 0.949 |
| 0.05 | 90 | 0.1767 | 0.1006 | 0.0915 | 0.1097 | 0.668 | 0.729 | 0.741 | 0.801 | 0.868 | 0.946 | 0.941 | 1.018 |
| 0.05 | 105 | 0.2062 | 0.0862 | 0.0785 | 0.094 | 0.721 | 0.787 | 0.8 | 0.866 | 0.921 | 1.004 | 1 | 1.083 |
| 0.05 | 180 | 0.3534 | 0.0513 | 0.0467 | 0.0559 | 0.945 | 1.03 | 1.048 | 1.133 | 1.145 | 1.247 | 1.248 | 1.35 |
| 0.05 | 225 | 0.4418 | 0.041 | 0.0373 | 0.0447 | 1.056 | 1.152 | 1.171 | 1.267 | 1.256 | 1.369 | 1.371 | 1.484 |
| 0.05 | 270 | 0.5301 | 0.0342 | 0.0311 | 0.0373 | 1.157 | 1.262 | 1.283 | 1.388 | 1.357 | 1.479 | 1.483 | 1.605 |
| 0.05 | 600 | 1.1781 | 0.0154 | 0.014 | 0.0168 | 1.724 | 1.881 | 1.913 | 2.069 | 1.924 | 2.098 | 2.113 | 2.286 |

| | | | | | | | | | | | | | |
|-------|------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.05 | 800 | 1.5708 | 0.0115 | 0.0105 | 0.0126 | 1.991 | 2.172 | 2.208 | 2.389 | 2.191 | 2.389 | 2.408 | 2.606 |
| 0.05 | 1000 | 1.9635 | 0.0092 | 0.0084 | 0.0101 | 2.226 | 2.429 | 2.469 | 2.671 | 2.426 | 2.646 | 2.669 | 2.888 |
| 0.071 | 4 | 0.0158 | 1.101 | 1.0049 | 1.2106 | 0.195 | 0.21 | 0.213 | 0.228 | 0.395 | 0.427 | 0.413 | 0.445 |
| 0.071 | 8 | 0.0317 | 0.5505 | 0.5025 | 0.6053 | 0.276 | 0.297 | 0.301 | 0.322 | 0.476 | 0.514 | 0.501 | 0.539 |
| 0.071 | 10 | 0.0396 | 0.4404 | 0.402 | 0.4842 | 0.308 | 0.332 | 0.336 | 0.36 | 0.508 | 0.549 | 0.536 | 0.577 |
| 0.071 | 15 | 0.0594 | 0.2936 | 0.268 | 0.3228 | 0.381 | 0.41 | 0.415 | 0.444 | 0.581 | 0.627 | 0.615 | 0.661 |
| 0.071 | 20 | 0.0792 | 0.2202 | 0.201 | 0.2421 | 0.443 | 0.477 | 0.483 | 0.517 | 0.643 | 0.694 | 0.683 | 0.734 |
| 0.071 | 25 | 0.099 | 0.1762 | 0.1608 | 0.1937 | 0.499 | 0.538 | 0.544 | 0.582 | 0.699 | 0.755 | 0.744 | 0.799 |
| 0.071 | 30 | 0.1188 | 0.1468 | 0.134 | 0.1614 | 0.547 | 0.589 | 0.596 | 0.638 | 0.747 | 0.806 | 0.796 | 0.855 |
| 0.071 | 35 | 0.1386 | 0.1258 | 0.1148 | 0.1384 | 0.591 | 0.636 | 0.644 | 0.689 | 0.791 | 0.853 | 0.844 | 0.906 |
| 0.071 | 45 | 0.1782 | 0.0979 | 0.0893 | 0.1076 | 0.67 | 0.721 | 0.73 | 0.781 | 0.87 | 0.938 | 0.93 | 0.998 |
| 0.071 | 60 | 0.2376 | 0.0748 | 0.0683 | 0.0823 | 0.773 | 0.833 | 0.843 | 0.902 | 0.973 | 1.05 | 1.043 | 1.119 |
| 0.071 | 75 | 0.2969 | 0.0699 | 0.0546 | 0.0658 | 0.865 | 0.931 | 0.942 | 1.009 | 1.065 | 1.148 | 1.142 | 1.226 |
| 0.071 | 90 | 0.3563 | 0.0499 | 0.0455 | 0.0549 | 0.947 | 1.02 | 1.032 | 1.105 | 1.147 | 1.237 | 1.232 | 1.322 |
| 0.071 | 105 | 0.4157 | 0.0428 | 0.039 | 0.047 | 1.023 | 1.102 | 1.115 | 1.194 | 1.223 | 1.319 | 1.315 | 1.411 |
| 0.071 | 135 | 0.5345 | 0.0333 | 0.0304 | 0.0366 | 1.16 | 1.249 | 1.264 | 1.353 | 1.36 | 1.466 | 1.464 | 1.57 |
| 0.071 | 180 | 0.7127 | 0.0254 | 0.0232 | 0.028 | 1.339 | 1.443 | 1.46 | 1.563 | 1.539 | 1.66 | 1.66 | 1.78 |
| 0.071 | 225 | 0.8908 | 0.0203 | 0.0186 | 0.0224 | 1.498 | 1.613 | 1.632 | 1.747 | 1.698 | 1.83 | 1.832 | 1.964 |
| 0.071 | 270 | 1.069 | 0.017 | 0.0155 | 0.0186 | 1.641 | 1.767 | 1.788 | 1.914 | 1.841 | 1.984 | 1.988 | 2.131 |
| 0.071 | 600 | 2.3755 | 0.0076 | 0.007 | 0.0084 | 2.446 | 2.634 | 2.665 | 2.853 | 2.646 | 2.851 | 2.865 | 3.07 |
| 0.071 | 800 | 3.1674 | 0.0057 | 0.0052 | 0.0063 | 2.824 | 3.041 | 3.077 | 3.295 | 3.024 | 3.258 | 3.277 | 3.512 |
| 0.071 | 1000 | 3.9592 | 0.0046 | 0.0042 | 0.005 | 3.157 | 3.4 | 3.441 | 3.683 | 3.357 | 3.617 | 3.641 | 3.9 |
| 0.08 | 4 | 0.0201 | 0.8672 | 0.7988 | 0.9441 | 0.218 | 0.235 | 0.238 | 0.253 | 0.418 | 0.452 | 0.438 | 0.47 |
| 0.08 | 8 | 0.0402 | 0.4336 | 0.3994 | 0.4721 | 0.308 | 0.332 | 0.336 | 0.357 | 0.508 | 0.549 | 0.536 | 0.574 |
| 0.08 | 10 | 0.0503 | 0.3469 | 0.3195 | 0.3777 | 0.344 | 0.372 | 0.376 | 0.399 | 0.544 | 0.589 | 0.576 | 0.616 |
| 0.08 | 15 | 0.0754 | 0.2312 | 0.213 | 0.2518 | 0.425 | 0.459 | 0.464 | 0.493 | 0.625 | 0.676 | 0.664 | 0.71 |
| 0.08 | 20 | 0.1005 | 0.1734 | 0.1598 | 0.1888 | 0.494 | 0.534 | 0.54 | 0.574 | 0.694 | 0.751 | 0.74 | 0.791 |
| 0.08 | 25 | 0.1257 | 0.1387 | 0.1278 | 0.1511 | 0.557 | 0.602 | 0.608 | 0.646 | 0.757 | 0.819 | 0.808 | 0.863 |
| 0.08 | 30 | 0.1508 | 0.1156 | 0.1065 | 0.1259 | 0.61 | 0.659 | 0.666 | 0.708 | 0.81 | 0.876 | 0.866 | 0.925 |
| 0.08 | 35 | 0.1759 | 0.0991 | 0.0913 | 0.1079 | 0.659 | 0.712 | 0.719 | 0.765 | 0.859 | 0.929 | 0.919 | 0.982 |
| 0.08 | 45 | 0.2262 | 0.0771 | 0.071 | 0.0839 | 0.747 | 0.807 | 0.816 | 0.867 | 0.947 | 1.024 | 1.016 | 1.084 |
| 0.08 | 60 | 0.3016 | 0.0589 | 0.0543 | 0.0642 | 0.863 | 0.932 | 0.942 | 1.001 | 1.063 | 1.149 | 1.142 | 1.218 |
| 0.08 | 75 | 0.377 | 0.0472 | 0.0434 | 0.0513 | 0.964 | 1.042 | 1.053 | 1.12 | 1.164 | 1.259 | 1.253 | 1.337 |
| 0.08 | 90 | 0.4524 | 0.0393 | 0.0362 | 0.0428 | 1.056 | 1.141 | 1.154 | 1.226 | 1.256 | 1.358 | 1.354 | 1.443 |
| 0.08 | 105 | 0.5278 | 0.0337 | 0.031 | 0.0367 | 1.141 | 1.233 | 1.246 | 1.325 | 1.341 | 1.45 | 1.446 | 1.542 |
| 0.08 | 180 | 0.9048 | 0.02 | 0.0184 | 0.0218 | 1.494 | 1.614 | 1.631 | 1.734 | 1.694 | 1.831 | 1.831 | 1.951 |
| 0.08 | 225 | 1.131 | 0.016 | 0.0148 | 0.0174 | 1.67 | 1.805 | 1.824 | 1.939 | 1.87 | 2.022 | 2.024 | 2.156 |
| 0.08 | 270 | 1.3572 | 0.0134 | 0.0123 | 0.0145 | 1.83 | 1.977 | 1.998 | 2.124 | 2.03 | 2.194 | 2.198 | 2.341 |
| 0.08 | 600 | 3.0159 | 0.006 | 0.0055 | 0.0065 | 2.728 | 2.947 | 2.979 | 3.167 | 2.928 | 3.164 | 3.179 | 3.384 |
| 0.08 | 800 | 4.0212 | 0.0045 | 0.0042 | 0.0049 | 3.15 | 3.403 | 3.439 | 3.657 | 3.35 | 3.62 | 3.639 | 3.874 |
| 0.08 | 1000 | 5.0265 | 0.0036 | 0.0033 | 0.0039 | 3.522 | 3.805 | 3.845 | 4.088 | 3.722 | 4.022 | 4.045 | 4.305 |
| 0.1 | 4 | 0.0314 | 0.555 | 0.5187 | 0.5949 | 0.27 | 0.293 | 0.295 | 0.313 | 0.47 | 0.51 | 0.495 | 0.53 |
| 0.1 | 8 | 0.0628 | 0.2775 | 0.2594 | 0.2975 | 0.382 | 0.414 | 0.417 | 0.442 | 0.582 | 0.631 | 0.617 | 0.659 |
| 0.1 | 10 | 0.0785 | 0.222 | 0.2075 | 0.238 | 0.427 | 0.462 | 0.466 | 0.494 | 0.627 | 0.679 | 0.666 | 0.711 |
| 0.1 | 15 | 0.1178 | 0.148 | 0.1383 | 0.1587 | 0.527 | 0.571 | 0.576 | 0.61 | 0.727 | 0.788 | 0.776 | 0.827 |
| 0.1 | 20 | 0.1571 | 0.111 | 0.1037 | 0.119 | 0.613 | 0.665 | 0.67 | 0.71 | 0.813 | 0.882 | 0.87 | 0.927 |
| 0.1 | 25 | 0.1963 | 0.0888 | 0.083 | 0.0952 | 0.691 | 0.749 | 0.755 | 0.8 | 0.891 | 0.966 | 0.955 | 1.017 |
| 0.1 | 30 | 0.2356 | 0.074 | 0.0692 | 0.0793 | 0.757 | 0.82 | 0.827 | 0.876 | 0.957 | 1.037 | 1.027 | 1.093 |
| 0.1 | 35 | 0.2749 | 0.0634 | 0.0593 | 0.068 | 0.818 | 0.886 | 0.894 | 0.947 | 1.018 | 1.103 | 1.094 | 1.164 |
| 0.1 | 40 | 0.3142 | 0.0555 | 0.0519 | 0.0595 | 0.874 | 0.947 | 0.955 | 1.012 | 1.074 | 1.164 | 1.155 | 1.229 |
| 0.1 | 45 | 0.3534 | 0.0493 | 0.0461 | 0.0529 | 0.927 | 1.005 | 1.013 | 1.073 | 1.127 | 1.222 | 1.213 | 1.29 |
| 0.1 | 60 | 0.4712 | 0.0377 | 0.0353 | 0.0404 | 1.071 | 1.16 | 1.17 | 1.239 | 1.271 | 1.377 | 1.37 | 1.456 |
| 0.1 | 75 | 0.589 | 0.0302 | 0.0282 | 0.0324 | 1.197 | 1.297 | 1.308 | 1.386 | 1.397 | 1.514 | 1.508 | 1.603 |
| 0.1 | 90 | 0.7069 | 0.0252 | 0.0235 | 0.027 | 1.311 | 1.421 | 1.433 | 1.518 | 1.511 | 1.638 | 1.633 | 1.735 |
| 0.1 | 105 | 0.8247 | 0.0216 | 0.0201 | 0.0231 | 1.417 | 1.535 | 1.548 | 1.64 | 1.617 | 1.752 | 1.748 | 1.857 |

| | | | | | | | | | | | | | |
|-----|-----|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.1 | 120 | 0.9425 | 0.0189 | 0.0176 | 0.0202 | 1.514 | 1.641 | 1.655 | 1.753 | 1.714 | 1.858 | 1.855 | 1.97 |
| 0.1 | 160 | 1.2566 | 0.0141 | 0.0132 | 0.0152 | 1.749 | 1.894 | 1.911 | 2.024 | 1.949 | 2.111 | 2.111 | 2.241 |
| 0.1 | 180 | 1.4137 | 0.0126 | 0.0118 | 0.0135 | 1.855 | 2.009 | 2.026 | 2.147 | 2.055 | 2.226 | 2.226 | 2.364 |
| 0.1 | 200 | 1.5708 | 0.0113 | 0.0106 | 0.0121 | 1.955 | 2.118 | 2.136 | 2.263 | 2.155 | 2.335 | 2.336 | 2.48 |
| 0.1 | 225 | 1.7671 | 0.0103 | 0.0096 | 0.011 | 2.074 | 2.246 | 2.266 | 2.4 | 2.274 | 2.463 | 2.466 | 2.617 |
| 0.1 | 270 | 2.1206 | 0.0085 | 0.008 | 0.0092 | 2.272 | 2.461 | 2.482 | 2.629 | 2.472 | 2.678 | 2.682 | 2.846 |
| 0.1 | 600 | 4.7124 | 0.0038 | 0.0036 | 0.0041 | 3.386 | 3.668 | 3.7 | 3.919 | 3.586 | 3.885 | 3.9 | 4.136 |
| 0.1 | 800 | 6.2832 | 0.0029 | 0.0027 | 0.0031 | 3.91 | 4.236 | 4.272 | 4.525 | 4.11 | 4.453 | 4.472 | 4.742 |

TECHNICAL DATA FOR TIW WIRE

| Nominal conductor diameter (mm) | Tolerance (mm) | Typical overall diameter (mm) | Maximum overall diameter (mm) | Maximum conductor resistance (Ω/km) | Unit Weight (kg/km) |
|---------------------------------|----------------|-------------------------------|-------------------------------|-------------------------------------|---------------------|
| 0.2 | ±0.008 | 0.4 | 0.417 | 607.6 | 0.398 |
| 0.21 | ±0.008 | 0.41 | 0.427 | 549 | 0.431 |
| 0.22 | ±0.008 | 0.42 | 0.437 | 498.4 | 0.465 |
| 0.23 | ±0.008 | 0.43 | 0.447 | 454.5 | 0.5 |
| 0.24 | ±0.008 | 0.44 | 0.457 | 416.2 | 0.537 |
| 0.25 | ±0.008 | 0.45 | 0.467 | 382.5 | 0.575 |
| 0.26 | ±0.010 | 0.46 | 0.477 | 358.4 | 0.616 |
| 0.27 | ±0.010 | 0.47 | 0.487 | 331.4 | 0.656 |
| 0.28 | ±0.010 | 0.48 | 0.497 | 307.3 | 0.697 |
| 0.29 | ±0.010 | 0.49 | 0.507 | 285.7 | 0.742 |
| 0.3 | ±0.010 | 0.5 | 0.52 | 262.9 | 0.786 |
| 0.32 | ±0.010 | 0.52 | 0.54 | 230.3 | 0.882 |
| 0.35 | ±0.010 | 0.55 | 0.57 | 191.2 | 1.033 |
| 0.37 | ±0.010 | 0.57 | 0.59 | 170.6 | 1.143 |
| 0.4 | ±0.010 | 0.6 | 0.625 | 145.3 | 1.316 |
| 0.45 | ±0.010 | 0.65 | 0.675 | 114.2 | 1.633 |
| 0.5 | ±0.010 | 0.7 | 0.725 | 91.43 | 1.985 |
| 0.55 | ±0.020 | 0.75 | 0.775 | 78.15 | 2.371 |
| 0.6 | ±0.020 | 0.8 | 0.825 | 65.26 | 2.793 |
| 0.65 | ±0.020 | 0.85 | 0.875 | 55.31 | 3.249 |
| 0.7 | ±0.020 | 0.9 | 0.925 | 47.47 | 3.741 |
| 0.75 | ±0.020 | 0.95 | 0.975 | 41.19 | 4.267 |
| 0.8 | ±0.020 | 1 | 1.03 | 36.08 | 4.829 |
| 0.85 | ±0.020 | 1.05 | 1.08 | 31.87 | 5.425 |
| 0.9 | ±0.020 | 1.1 | 1.13 | 28.35 | 6.056 |
| 0.95 | ±0.020 | 1.15 | 1.18 | 25.38 | 6.721 |
| 1 | ±0.030 | 1.2 | 1.23 | 23.33 | 7.422 |