



SOLUTIONS FOR FUTURE MOBILITY

The pace at which the E&E architecture of vehicles is being innovated is one of the major challenges facing the automotive industry. An increasing number of electric and electronic systems enriches modern vehicles and makes them more attractive. At the same time, reliability is one the automotive industry's core strengths. Within this area of potential conflict, everything depends on constant innovation and proven technology. Is that a contradiction in terms? Not for us.

TE Transportation Solutions, which is part of TE Connectivity, is a company driven by technology. With this philosophy, we have become one of the world's largest manufacturers of passive components. It's part of our DNA to reconcile innovation and reliability. To do that, we have invested in the most modern R&D and testing infrastructure. We will show you how leading-edge passive components can contribute to vehicle function enrichment, better efficiency and greater comfort. POWERTRAIN **SYSTEMS SAFETY &** SECURITY **SYSTEMS** CONVENIENCE DRIVER INFORMATION **BODY & CHASSIS**

SYSTEMS

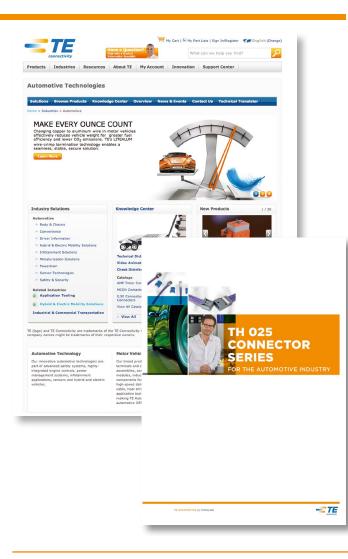
TE AUTOMOTIVE ONLINE

The TE Transportation Solutions website is an innovative and interactive source for application information, product updates and technical solutions.

Please contact us at: www.te.com/automotive

STAY CONNECTED

TE AUTOMOTIVE OFFERS A VARIETY OF PRODUCT SPECIFIC CATALOGS, BROCHURES AND HIGH IMPACT FLYERS TO HELP BETTER SERVE YOU!



TE Literature

For more information on literature for TE Automotive, please contact your local organization or go to: www.te.com/automotive

TE Products

www.te.com/en/products/product-landing.html

Product Information Center (PIC)

You can rely on TE Connectivity's PIC Team to provide you support for answers to your general information or technical questions in an efficient and effective manner.

To reach our PIC staff, please contact your local organization or see our Global Contacts page.

Please contact us at www.te.com/support-center

INNOVATIVE TECHNOLOGIES

TE Automotive – a business segment of TE Connectivity – follows the globalization goals of our customers, speeds up the integration of new technologies and enables our customers access to our vast product portfolio and services.



Interconnection Systems

TE Connectivity's electrical and electronic interconnection products and solutions are used to electrically and mechanically join wires and cables, printed circuit boards, integrated circuit packages and batteries.



Cable Assemblies

TE Connectivity is your partner for vehicle-specific cable assemblies. We offer research and development capabilities, prototypes and samples, as well as manufacturing facilities for special cable assemblies.



Hybrid & Electric Mobility Solutions

Electric mobility is changing the way engineers think about vehicles. The way they're designed and engineered. The way they're fueled. Even the way the fuel is delivered. And we're right there with you helping complete the connections for current and nextgeneration hybrid and electric mobility and the charging infrastructure. TE Connectivity's complete porfolio of connection and protection systems includes battery connectivity systems, connectors, cable assemblies, high-voltage relays and contactors, power distribution units and customer-specific designs.





Sensor Solutions

TE Connectivity provides contactless and electromechanical sensor products with robust housing technologies, connection systems and temperature-resistant design for use in a variety of industrial and commercial transportation applications.



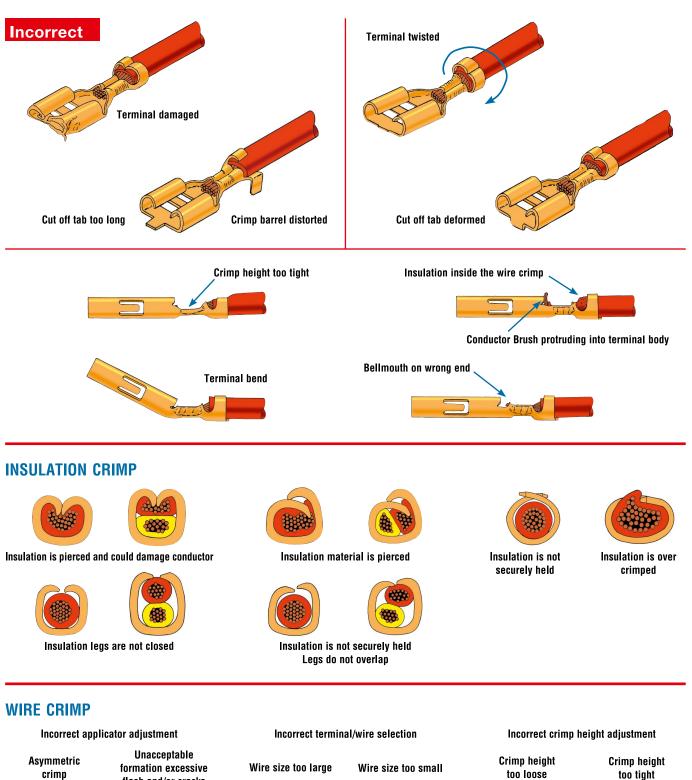
Relays

TE Connectivity's 24 V relay product line includes a broad range of robust and versatile relays for many diverse applications within trucks, buses, agricultural tractors, construction equipment and other heavy duty commercial vehicles. With increased contact gaps and other key design features, these relays are designed for use in challenging environments where they may regularly encounter extended periods of shock and vibration.



Infotainment

TE Connectivity offers a wide variety of infotainment solutions for consumer port connections, high data rate applications, next-generation harness architecture, board-to-board connections and vehicle-to-vehicle communication.



Terminal feed incorrectly adjusted flash and/or cracks



Anvil and crimper not aligned or worn



Crimp barrel does not close Legs too close

to bottom of crimp. Insufficient deformation of strands, showing voids

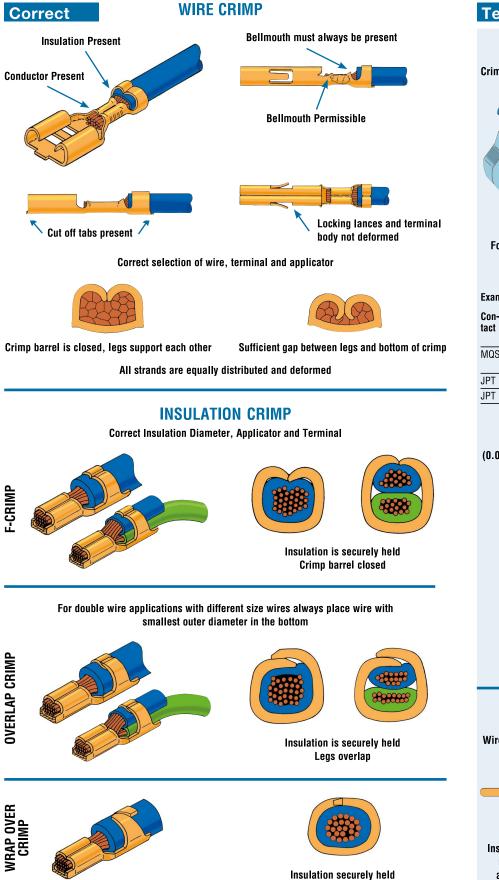
too loose



Insufficient deformation, showing voids



Flash at under side of crimp, due to over crimping



Legs must pass each other

Test



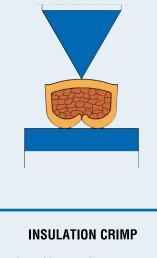
Crimp heights and tolerances

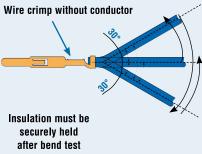
For crimp height tolerances for any given contact, please refer to the relevant application specification.

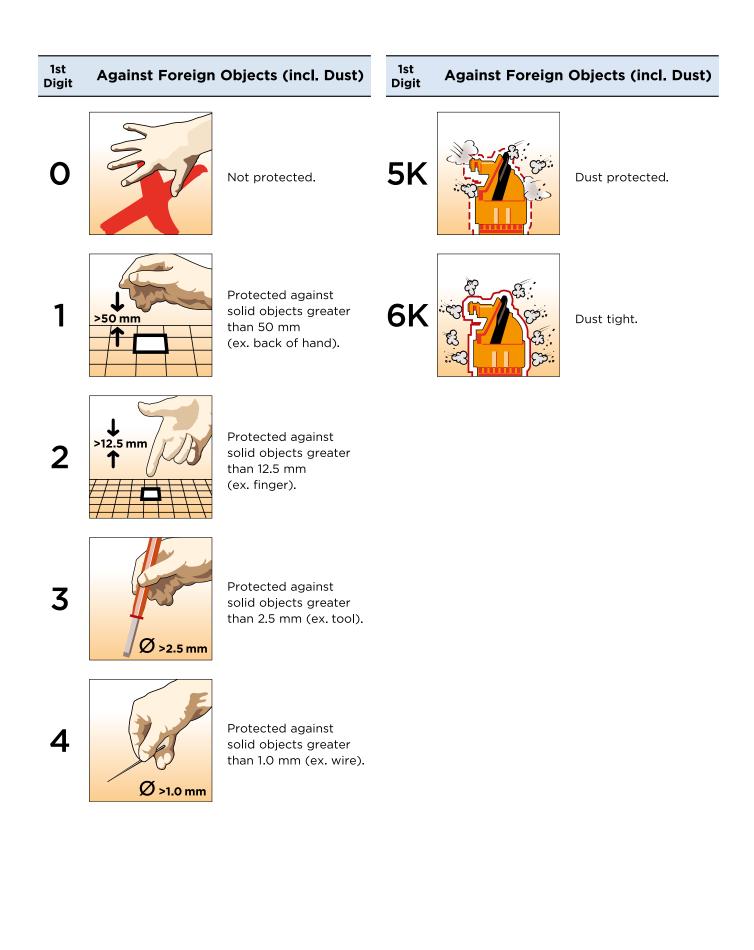
Examples:

| Con- tact | Part No. | Wire Range (mm²) | Toler- ance (mm) | Appli- cation Spec. |
|--------------|------------------|------------------------|------------------------|---------------------------|
| MQS | 962885 962886 | 0.2–0.5 | ±0.03 | 114-18025 |
| JPT | 927775 | 0.5-1.0 | ±0.05 | 114-18050 |
| JPT | 927773 | 1.5–2.5 | ±0.05 | 114-18050 |

Digital Crimp Height Micrometer (0.001 mm increments) acc. to DIN ISO 9001 Part No. 547203-1







| 2nd Digit | Agair | nst Water | 2nd Digit | Agair | nst Water |
|--------------|-------|--|--------------|-------|--|
| 0 | | Not protected. | 5 | | Protected against jetting water. |
| 1 | | Protected against vertically dripping water. | 6 | | Protected against powerfully jetting water. |
| 2 | | Protected against dripping water when tilted up to 15°. | 6K | | Protected against powerfully jetting water with increased pressure (Automotive). |
| 3 | | Protected against spraying water (up to 60° inclination). | 7 | | Protected against the temporary effects of immersion up to 1 meter. |
| 4 | | Protected against splashing water. | 8 | | Protected against continuous submersion agreed with customer, but more severe than code 7. |
| 4K | | Protected against splashing water with increased pressure. | 9K | | Protected against high-pressure/ steam-jet cleaning (Automotive). |

At TE Connectivity, we support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

Getting the information you need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week.

The Support Center also provides:

Cross-Reference from Non-compliant to Compliant Products

Ability to browse RoHS Compliant Products in our on-line catalog: www.te.com/commerce/alt/RohsAltHome.do

Downloadable Technical Data Customer Information Presentation

More detailed information regarding the definitions used above

RoHS Compliant

Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

Note: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

Non-RoHS Compliant

These part numbers are identified with a "t" symbol. These products do not comply with the material restrictions of the European Union Directive 2002/95/EC.

5 of 6 Compliant

A "I" symbol identifies these part numbers. These products do not fully comply with the

European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

Note: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced below. So whatever your questions when it comes to RoHS, we've got the answers at http://www.te.com/customersupport/rohssupportcenter/

| AWG Code | Diameter (Inch) | Diameter (mm) | F (mm²) |
|----------|-----------------|---------------|---------|
| 000000 | 0.5800 | 14.733 | 170.0 |
| 00000 | 0.5165 | 13.13 | 135.0 |
| 0000 | 0.4600 | 11.684 | 103.8 |
| 000 | 0.4096 | 10.40 | 79.0 |
| 00 | 0.3648 | 9.27 | 67.5 |
| 0 | 0.3249 | 8.25 | 53.4 |
| 1 | 0.2893 | 7.34 | 42.2 |
| 2 | 0.2576 | 6.55 | 33.7 |
| 3 | 0.2294 | 5.82 | 26.6 |
| 4 | 0.2043 | 5.18 | 21.0 |
| 5 | 0.1819 | 4.62 | 16.9 |
| 6 | 0.1620 | 4.115 | 13.25 |
| 7 | 0.1443 | 3.66 | 10.25 |
| 8 | 0.1285 | 3.26 | 8.34 |
| 9 | | | 6.6 |
| | 0.1144 | 2.90 | |
| 10 | 0.1019 | 2.59 | 5.27 |
| 11 | 0.0907 | 2.30 | 4.15 |
| 12 | 0.0808 | 2.05 | 3.3 |
| 13 | 0.0720 | 1.83 | 2.63 |
| 14 | 0.0641 | 1.63 | 2.08 |
| 15 | 0.0571 | 1.45 | 1.65 |
| 16 | 0.0508 | 1.29 | 1.305 |
| 17 | 0.0453 | 1.14 | 1.01 |
| 18 | 0.0403 | 1.02 | 0.79 |
| 19 | 0.0359 | 0.91 | 0.65 |
| 20 | 0.0320 | 0.81 | 0.51 |
| 21 | 0.0285 | 0.72 | 0.407 |
| 22 | 0.0253 | 0.64 | 0.32 |
| 23 | 0.0226 | 0.57 | 0.255 |
| 24 | 0.0201 | 00.51 | 0.205 |
| 25 | 0.0179 | 0.455 | 0.162 |
| 26 | 0.0159 | 0.40 | 0.125 |
| 27 | 0.0142 | 0.36 | 0.102 |
| 28 | 0.0126 | 00.320 | 0.08 |
| 29 | 0.0113 | 00.287 | 0.0646 |
| 30 | 0.0100 | 00.254 | 0.0516 |
| 31 | 0.0089 | 00.226 | 0.04 |
| 32 | 0.0080 | 00.203 | 0.0324 |
| 33 | 0.0071 | 00.180 | 0.0255 |
| 34 | 0.0063 | 00.160 | 0.02 |
| 35 | 0.0056 | 00.142 | 0.0158 |
| 36 | 0.0050 | 00.127 | 0.0127 |
| 37 | 0.0045 | 00.114 | 0.01 |
| 38 | 0.0040 | 00.101 | 0.008 |
| 39 | 0.0035 | 00.089 | 0.0062 |
| 40 | 0.0031 | 00.079 | 0.0049 |
| 41 | 0.0028 | 00.071 | 0.00395 |
| 42 | 0.0025 | 00.064 | 0.00321 |
| 43 | 0.0022 | 00.056 | 0.00246 |
| 44 | 0.00198 | 00.050 | 0.00196 |
| 45 | 0.00176 | 00.045 | 0.00100 |
| 43 | 0.00157 | 00.043 | |
| 40 | 0.00140 | 00.040 | |
| 47 48 | 0.00140 | 00.030 | |
| 48 | 0.00124 | 00.031 | |
| | 0.00099 | | |
| | ບ.ບບບສອ | 00.025 | |

Remark: Starting from 0.03 mm2 (AWG 32) a wire can be crimped.

Most of the wire size ranges are mentioned in mm², as well as the insulation diameters which are in many cases only in mm's We therefore included the conversion tables on page X and page XI.

Please note that wire and insulation sizes are for guidance only. Consult the customer drawing for precise detail.

FLK and FLR

stand for German DIN (72551) abbreviations.

FLK means:

In German:

- Fahrzeug Leitung Kunststoff
 In English:
- Vehicle Cable
 Plastic

FLR means:

In German:

- Fahrzeug Leitung Reduziert
 In English:
- Thin Walled Cable (reduced insulation thickness)

Conversion Tables Inch / mm

| Inch | 0 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
|----------------|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0 | 0 | 0.0254 | 0.0508 | 0.0762 | 0.1016 | 0.1270 | 0.1524 | 0.1778 | 0.2032 | 0.2286 |
| 0.010 | 0.2540 | 0.2794 | 0.3048 | 0.3302 | 0.3556 | 0.3810 | 0.4064 | 0.4318 | 0.4572 | 0.4826 |
| 0.020 | 0.5080 | 0.5334 | 0.5588 | 0.5842 | 0.6096 | 0.6350 | 0.6604 | 0.6858 | 0.7112 | 0.7366 |
| 0.030 | 0.7620 | 0.7874 | 0.8128 | 0.8382 | 0.8636 | 0.8890 | 0.9144 | 0.9398 | 0.9652 | 0.9906 |
| 0.040 | 1.0160 | 1.0414 | 1.0668 | 1.0922 | 1.1176 | 1.1430 | 1.1684 | 1.1938 | 1.2192 | 1.2446 |
| 0.050 | 1.2700 | 1.2954 | 1.3208 | 1.3462 | 1.3716 | 1.3970 | 1.4224 | 1.4478 | 1.4732 | 1.4986 |
| 0.060 | 1.5240 | 1.5494 | 1.5748 | 1.6002 | 1.6256 | 1.6510 | 1.6764 | 1.7018 | 1.7272 | 1.7526 |
| 0.070 | 1.7780 | 1.8034 | 1.8288 | 1.8542 | 1.8796 | 1.9050 | 1.9304 | 1.9558 | 1.9812 | 2.0066 |
| 0.080 | 2.0320 | 2.0574 | 2.0828 | 2.1062 | 2.1336 | 2.1590 | 2.1844 | 2.2098 | 2.2352 | 2.2606 |
| 0.090 | 2.2860 | 2.3114 | 2.3368 | 2.3622 | 2.3876 | 2.4130 | 2.4384 | 2.4638 | 2.4892 | 2.5146 |
| 0.100 | 2.5400 | 2.5654 | 2.5908 | 2.6162 | 2.6416 | 2.6670 | 2.6924 | 2.7178 | 2.7432 | 2.7686 |
| 0.110 | 2.7940 | 2.8194 | 2.8448 | 2.8702 | 2.8956 | 2.9210 | 2.9464 | 2.9718 | 2.9972 | 3.0226 |
| 0.120 | 3.0480 | 3.0734 | 3.0988 | 3.1242 | 3.1496 | 3.1750 | 3.2004 | 3.2258 | 3.2512 | 3.2766 |
| 0.130 | 3.3020 | 3.3274 | 3.3528 | 3.3782 | 3.4036 | 3.4290 | 3.4544 | 3.4798 | 3.5052 | 3.5306 |
| 0.140 | 3.5560 | 3.5814 | 3.6068 | 3.6322 | 3.6576 | 3.6830 | 3.7084 | 3.7338 | 3.7592 | 3.7846 |
| 0.150 | 3.8100 | 3.8354 | 3.8608 | 3.8862 | 3.9116 | 3.9370 | 3.9624 | 3.9878 | 4.0132 | 4.0386 |
| 0.160 | 4.0640 | 4.0894 | 4.1148 | 4.1402 | 4.1656 | 4.1910 | 4.2164 | 4.2418 | 4.2672 | 4.2926 |
| 0.170 | 4.3180 | 4.3434 | 4.3688 | 4.3942 | 4.4196 | 4.4450 | 4.4704 | 4.4958 | 4.5212 | 4.5466 |
| 0.180 | 4.5720 | 4.5974 | 4.6228 | 4.6482 | 4.6736 | 4.6990 | 4.7244 | 4.7498 | 4.7752 | 4.8006 |
| 0.190 | 4.8260 | 4.8514 | 4.8768 | 4.9022 | 4.9276 | 4.9530 | 4.9784 | 5.0038 | 5.0292 | 5.0546 |
| 0.200 | 5.0800 | 5.1054 | 5.1308 | 5.1562 | 5.1816 | 5.2070 | 5.2324 | 5.2578 | 5.2832 | 5.3086 |
| 0.210 | 5.3340 | 5.3594 | 5.3848 | 5.4102 | 5.4356 | 5.4610 | 5.4864 | 5.5118 | 5.5372 | 5.5626 |
| 0.220 | 5.5880 | 5.6134 | 5.6388 | 5.6642 | 5.6896 | 5.7150 | 5.7404 | 5.7658 | 5.7912 | 5.8166 |
| 0.230 | 5.8420 | 5.8674 | 5.8928 | 5.9182 | 5.9436 | 5.9690 | 5.9944 | 6.0198 | 6.0452 | 6.0706 |
| 0.240 | 6.0960 | 6.1214 | 6.1468 | 6.1722 | 6.1976 | 6.2230 | 6.2484 | 6.2738 | 6.2992 | 6.3246 |
| 0.250 | 6.3500 | 6.3754 | 6.4008 | 6.4262 | 6.4516 | 6.4770 | 6.5024 | 6.5278 | 6.5532 | 6.5786 |
| 0.260 | 6.6040 | 6.6294 | 6.6548 | 6.6802 | 6.7056 | 6.7310 | 6.7564 | 6.7818 | 6.8072 | 6.8326 |
| 0.270 | 6.8580 | 6.8834 | 6.9088 | 6.9342 | 6.9596 | 6.9850 | 7.0104 | 7.0358 | 7.0612 | 7.0866 |
| 0.280 | 7.1120 | 7.1374 | 7.1628 | 7.1882 | 7.2136 | 7.2390 | 7.2644 | 7.2898 | 7.3152 | 7.3406 |
| 0.290 | 7.3660 | 7.3914 | 7.4168 | 7.4422 | 7.4676 | 7.4930 | 7.5184 | 7.5438 | 7.5692 | 7.5946 |
| 0.300 | 7.6200 | 7.6454 | 7.6708 | 7.6962 | 7.7216 | 7.7470 | 7.7724 | 7.7978 | 7.8232 | 7.8486 |
| 0.310 | 7.8740 | 7.8994 | 7.9248 | 7.9502 | 7.9756 | 8.0010 | 8.0264 | 8.0518 | 8.0772 | 8.1026 |
| 0.320 | 8.1280 | 8.1534 | 8.1788 | 8.2042 | 8.2296 | 8.2550 | 8.2804 | 8.3058 | 8.3312 | 8.3566 |
| 0.330 | 8.3820 | 8.4074 | 8.4328 | 8.4582 | 8.4836 | 8.5090 | 8.5344 | 8.5598 | 8.5852 | 8.6106 |
| 0.340 | 8.6360 | 8.6614 | 8.6868 | 8.7122 | 8.7376 | 8.7630 | 8.7884 | 8.8138 | 8.8392 | 8.8646 |
| 0.350 | 8.8900 | 8.9154 | 8.9408 | 8.9662 | 8.9916 | 9.0170 | 9.0424 | 9.0678 | 9.0932 | 9.1186 |
| 0.360 | 9.1440 | 9.1694 | 9.1948 | 9.2202 | 9.2456 | 9.2710 | 9.2964 | 9.3218 | 9.3472 | 9.3726 |
| 0.370 | 9.3980 | 9.4234 | 9.4488 | 9.4742 | 9.4996 | 9.5250 | 9.5504 | 9.5758 | 9.6012 | 9.6266 |
| 0.380 | 9.6520 | 9.6774 | 9.7028 | 9.7282 | 9.7536 | 9.7790 | 9.8044 | 9.8298 | 9.8552 | 9.8806 |
| 0.390 | 9.9060 | 9.9314 | 9.9568 | 9.9822 | 10.0076 | 10.0330 | 10.0584 | 10.0838 | 10.1092 | 10.1346 |
| 0.400 | 10.1600 | 10.1854 | 10.2108 | 10.2362 | 10.2616 | 10.2870 | 10.3124 | 10.3378 | 10.3632 | 10.3886 |
| 0.410 | 10.4140 | 10.4394 | 10.4648 | 10.4902 | 10.5156 | 10.5410 | 10.5664 | 10.5918 | 10.6172 | 10.6426 |
| 0.420 | 10.6680 | 10.6934 | 10.7188 | 10.7442 | 10.7696 | 10.7950 | 10.8204 | 10.8458 | 10.8712 | 10.8966 |
| 0.430 | 10.9220 | 10.9474 | 10.9728 | 10.9982 | 11.0236 | 11.0490 | 11.0744 | 11.0998 | 11.1252 | 11.1506 |
| 0.440 | 11.1760 | 11.2014 | 11.2268 | 11.2522 | 11.2776 | 11.3030 | 11.3284 | 11.3538 | 11.3792 | 11.4046 |
| 0.450 | 11.4300 | 11.4554 | 11.4808 | 11.5062 | 11.5316 | 11.5510 | 11.5824 | 11.6078 | 11.6332 | 11.6586 |
| 0.460 | 11.6840 | 11.7094 | 11.7348 | 11.7602 | 11.7856 | 11.8110 | 11.8364 | 11.8618 | 11.8872 | 11.9126 |
| 0.470 | 11.9380 | 11.9634 | 11.9888 | 12.0142 | 12.0396 | 12.0650 | 12.0904 | 12.1158 | 12.1412 | 12.1666 |
| 0.480 | 12.1920 | 12.2174 | 12.2428 | 12.2682 | 12.2936 | 12.3190 | 12.3444 | 12.3698 | 12.3952 | 12.4206 |
| 0.490 0.500 | 12.4460 12.7000 | 12.4714 | 12.4968 | 12.5222 | 12.5476 | 12.5730 | 12.5984 | 12.6238 | 12.6492 | 12.6746 |
| Inch | 0 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
| | U | 0.001 | 0.002 | 0.000 | 0.004 | 0.000 | 0.000 | 0.007 | 0.000 | 0.009 |

| Inch | 0 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0.500 | 12.7000 | 12.7254 | 12.7508 | 12.7762 | 12.8016 | 12.8270 | 12.8524 | 12.8778 | 12.9032 | 12.9286 |
| 0.510 | 12.9540 | 12.9794 | 13.0048 | 13.0302 | 13.0556 | 13.0810 | 13.1064 | 13.1318 | 13.1572 | 13.1826 |
| 0.520 | 13.2080 | 13.2334 | 13.2588 | 13.2842 | 13.3096 | 13.3350 | 13.3604 | 13.3858 | 13.4112 | 13.4366 |
| 0.530 | 13.4620 | 13.4874 | 13.5128 | 15.5382 | 13.5636 | 13.5890 | 13.6144 | 13.6398 | 13.6652 | 13.6906 |
| 0.540 | 13.7160 | 13.7414 | 13.7668 | 13.7922 | 13.8176 | 13.8430 | 13.8684 | 13.8938 | 13.9192 | 13.9446 |
| 0.550 | 13.9700 | 13.9954 | 14.0208 | 14.0462 | 14.0716 | 14.0970 | 14.1224 | 14.1478 | 14.1732 | 14.1986 |
| 0.560 | 14.2240 | 14.2494 | 14.2748 | 14.3002 | 14.3256 | 14.3510 | 14.3764 | 14.4018 | 14.4272 | 14.4526 |
| 0.570 | 14.4780 | 14.5034 | 14.5288 | 14.5542 | 14.5796 | 14.6050 | 14.6304 | 14.6558 | 14.6812 | 14.7066 |
| 0.580 | 14.7320 | 14.7574 | 14.7828 | 14.8082 | 14.8336 | 14.8590 | 14.8844 | 14.9098 | 14.9352 | 14.9606 |
| 0.590 | 14.9860 | 15.0114 | 15.0368 | 15.0622 | 15.0876 | 15.1130 | 15.1384 | 15.1638 | 15.1892 | 15.2146 |
| 0.600 | 15.2400 | 15.2654 | 15.2908 | 15.3162 | 15.3416 | 15.3670 | 15.3924 | 15.4178 | 15.4432 | 15.4686 |
| 0.610 | 15.4940 | 15.5194 | 15.5448 | 15.5702 | 15.5956 | 15.6210 | 15.6464 | 15.6718 | 15.6972 | 15.7226 |
| 0.620 | 15.7480 | 15.7734 | 15.7988 | 15.8242 | 15.8496 | 15.8750 | 15.9004 | 15.9258 | 15.9512 | 15.9766 |
| 0.630 | 16.0020 | 16.0274 | 16.0528 | 16.0782 | 16.1036 | 16.1290 | 16.1544 | 16.1798 | 16.2052 | 16.2306 |
| 0.640 | 16.2560 | 16.2814 | 16.3068 | 16.3322 | 16.3576 | 16.3830 | 16.4084 | 16.4338 | 16.4592 | 16.4846 |
| 0.650 | 16.5100 | 16.5354 | 16.5608 | 16.5862 | 16.6116 | 16.6370 | 16.6624 | 16.6878 | 16.7132 | 16.7386 |
| 0.660 | 16.7640 | 16.7894 | 16.8148 | 16.8402 | 16.8656 | 16.8910 | 16.9164 | 16.9418 | 16.9672 | 16.9926 |
| 0.670 | 17.0180 | 17.0434 | 17.0688 | 17.0942 | 17.1196 | 17.1450 | 17.1704 | 17.1958 | 17.2212 | 17.2466 |
| 0.680 | 17.2720 | 17.2974 | 17.3228 | 17.3482 | 17.3736 | 17.3990 | 17.4244 | 17.4498 | 17.4752 | 17.5006 |
| 0.690 | 17.5260 | 17.5514 | 17.5768 | 17.6022 | 17.6276 | 17.6530 | 17.6784 | 17.7038 | 17.7292 | 17.7546 |
| 0.700 | 17.7800 | 17.8054 | 17.8308 | 17.8562 | 17.8816 | 17.9070 | 17.9324 | 17.9528 | 17.9832 | 18.0086 |
| 0.710 | 18.0340 | 18.0594 | 18.0848 | 18.1102 | 18.1356 | 18.1610 | 18.1864 | 18.2118 | 18.2372 | 18.2626 |
| 0.720 | 18.2880 | 18.3134 | 18.3388 | 18.3642 | 18.3896 | 18.4150 | 18.4404 | 18.4658 | 18.4912 | 19.5166 |
| 0.730 | 18.5420 | 18.5674 | 18.5928 | 18.6182 | 18.6436 | 18.6690 | 18.6944 | 18.7198 | 18.7452 | 18.7706 |
| 0.740 | 18.7960 | 18.8214 | 18.8468 | 18.8722 | 18.8976 | 18.9230 | 18.9484 | 18.9738 | 18.9992 | 19.0246 |
| 0.750 | 19.0500 | 19.0754 | 19.1008 | 19.1262 | 19.1516 | 19.1170 | 19.2024 | 19.2278 | 19.2532 | 19.2786 |
| 0.760 | 19.3040 | 19.3294 | 19.3548 | 19.3802 | 19.4056 | 19.4310 | 19.4564 | 19.4818 | 19.5072 | 19.5326 |
| 0.770 | 19.5580 | 19.5834 | 19.6088 | 19.6342 | 19.6596 | 19.6850 | 19.7104 | 19.7358 | 19.7612 | 19.7886 |
| 0.780 | 19.8120 | 19.8374 | 19.8628 | 19.8882 | 19.9136 | 19.9390 | 19.9644 | 19.9898 | 20.0152 | 20.0406 |
| 0.790 | 20.0660 | 20.0914 | 20.1168 | 20.1422 | 20.1676 | 20.1930 | 20.2184 | 20.2438 | 20.2692 | 20.2946 |
| 0.800 | 20.3200 | 20.3454 | 20.3708 | 20.3962 | 20.4216 | 20.4470 | 20.4724 | 20.4978 | 20.5232 | 20.5486 |
| 0.810 | 20.5740 | 20.5994 | 20.6248 | 20.6502 | 20.6756 | 20.7010 | 20.7264 | 20.7518 | 20.7772 | 20.8026 |
| 0.820 | 20.8280 | 20.8534 | 20.8788 | 20.9042 | 20.9296 | 20.9550 | 20.9804 | 21.0058 | 21.0312 | 21.0566 |
| 0.830 | 21.0820 | 21.1074 | 21.1328 | 21.1582 | 21.1836 | 21.2090 | 21.2344 | 21.2598 | 21.2852 | 21.3106 |
| 0.840 | 21.3360 | 21.3614 | 21.3868 | 21.4122 | 21.4376 | 21.4630 | 21.4884 | 21.5138 | 21.5392 | 21.5646 |
| 0.850 | 21.5900 | 21.6154 | 21.6408 | 21.6662 | 21.6916 | 21.7170 | 21.7424 | 21.7678 | 21.7932 | 21.8186 |
| 0.860 | 21.8440 | 21.8694 | 21.8948 | 21.9202 | 21.9456 | 21.9710 | 21.9964 | 22.0218 | 22.0472 | 22.0726 |
| 0.870 | 22.0980 | 22.1234 | 22.1488 | 22.1742 | 22.1996 | 22.2250 | 22.2504 | 22.2758 | 22.3012 | 22.3266 |
| 0.880 | 22.3520 | 22.3774 | 22.4028 | 22.4282 | 22.4536 | 22.4790 | 22.5044 | 22.5298 | 22.5552 | 22.5806 |
| 0.890 | 22.6060 | 22.6314 | 22.6568 | 22.6822 | 22.7076 | 22.7330 | 22.7584 | 22.7838 | 22.8092 | 22.8346 |
| 0.900 | 22.8600 | 22.8854 | 22.9108 | 22.9362 | 22.9616 | 22.9870 | 23.0124 | 23.0378 | 23.0632 | 23.0886 |
| 0.910 | 23.1140 | 23.1394 | 23.1648 | 23.1902 | 23.2156 | 23.2410 | 23.2664 | 23.2918 | 23.3172 | 23.3426 |
| 0.920 | 23.3680 | 23.3934 | 23.4188 | 23.4442 | 23.4696 | 23.4950 | 23.5204 | 23.5458 | 23.5712 | 23.5966 |
| 0.930 | 23.6220 | 23.6474 | 23.6728 | 23.6982 | 23.7236 | 23.7490 | 23.7744 | 23.7998 | 23.8252 | 23.8506 |
| 0.940 | 23.8760 | 23.9014 | 23.9268 | 23.9522 | 23.9776 | 24.0030 | 24.0284 | 24.0538 | 24.0792 | 24.1046 |
| 0.950 | 24.1300 | 24.1554 | 24.1808 | 24.2062 | 24.2316 | 24.2570 | 24.2824 | 24.3078 | 24.3332 | 24.3586 |
| 0.960 | 24.3840 | 24.4094 | 24.4348 | 24.4602 | 24.4856 | 24.5110 | 24.5364 | 24.5618 | 24.5812 | 24.6126 |
| 0.970 | 24.6380 | 24.6634 | 24.6888 | 24.7142 | 24.7396 | 24.7650 | 24.7904 | 24.8158 | 24.8412 | 24.8666 |
| 0.980 | 24.8920 | 24.9174 | 24.9428 | 24.9682 | 24.9936 | 25.0190 | 25.0444 | 25.0698 | 25.0952 | 25.1206 |
| 0.990 | 25.1460 | 25.1714 | 25.1968 | 25.2222 | 25.2476 | 25.2730 | 25.2984 | 25.3228 | 25.3492 | 25.3746 |
| 1.000 | 25.4000 | | | | | | | | | |
| Inch | 0 | 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |

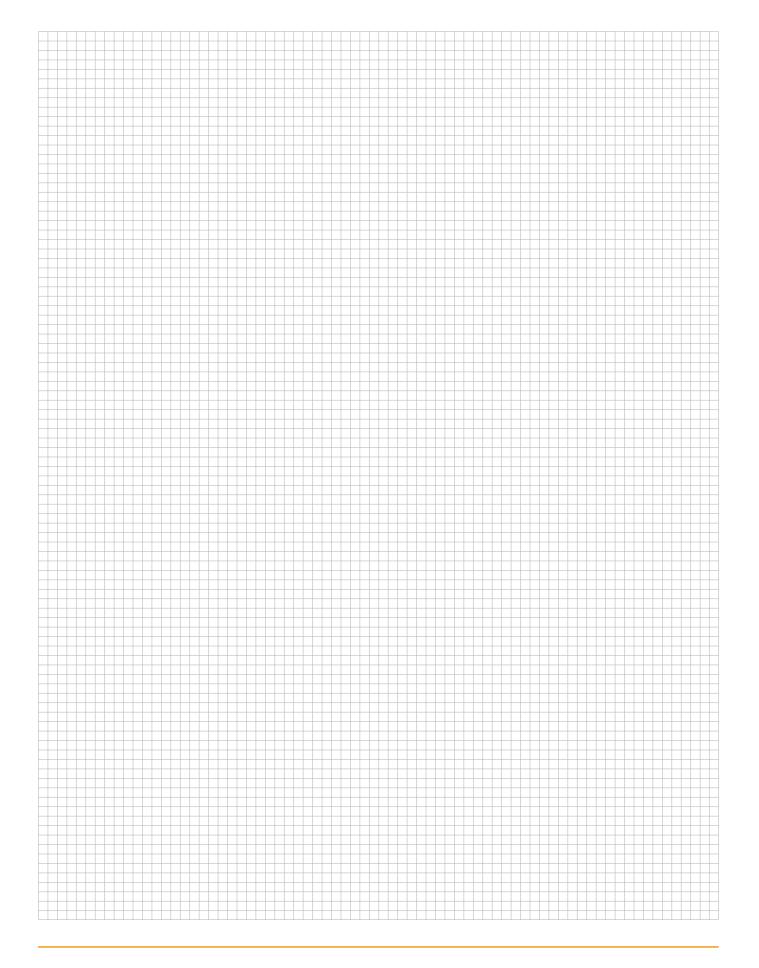
| TH 025 Connector Series | Раде | Powertrain Systems | Safety & Security Systems | Convenience | Driver Information | Body & Chassis Systems |
|-------------------------------|---------|-----------------------|---------------------------------|-------------|-----------------------|------------------------------|
| Introduction | 1 | | | | | |
| | | | | | | |
| Contacts | 2 - 3 | | | | | |
| Receptacle Contacts | 2 | | • | ٠ | • | ٠ |
| Tab Contacts | 3 | | • | • | • | • |
| | | | | | | |
| Receptacle Housings | 4 - 9 | | | | | |
| 4 Position (1 row) | 4 | | • | • | • | • |
| 8 Position (2 rows) | 5 | | • | • | • | • |
| 12 Position (2 rows) | 6 | | • | • | • | • |
| 16 Position (2 rows) | 7 | | • | • | • | • |
| 24 Position (2 rows) | 8 | | • | • | • | ٠ |
| 40 Position (2 rows) | 9 | | • | • | • | • |
| | | | | I | 1 | |
| Tab Housings | 10 - 14 | | | | | |

| Tab Housings | 10 - 14 | | | | |
|----------------------|---------|---|---|---|---|
| 4 Position (1 row) | 10 | • | • | • | • |
| 8 Position (2 rows) | 11 | • | • | • | • |
| 12 Position (2 rows) | 12 | • | • | • | • |
| 16 Position (2 rows) | 13 | • | • | • | • |
| 24 Position (2 rows) | 14 | • | • | • | • |

| Headers - Vertical Type | 15 - 17 | | | | |
|-------------------------|---------|---|---|---|---|
| 4 Position | 15 | • | • | • | • |
| 24 Position | 16 | • | • | • | • |
| 40 Position | 17 | • | • | • | • |

| Headers - Right Angle | 18 -25 | | | | |
|-----------------------|--------|---|---|---|---|
| 8 Position | 18 | • | • | • | • |
| 4 Position | 19 | • | • | • | • |
| 8 Position | 20 | • | • | • | • |
| 12 Position | 21 | • | • | • | • |
| 16 Position | 22 | • | • | • | • |
| 24 Position | 23 | • | • | • | • |
| 32 Position | 24 | • | • | • | • |
| 40 Position | 25 | • | • | • | • |

| TH 025 Connector Series | Page | Powertrain Systems | Safety & Security Systems | Convenience | Driver Information | Body & Chassis Systems |
|-------------------------------|---------|-----------------------|---------------------------------|-------------|-----------------------|------------------------------|
| Headers - Vertical | 26 - 29 | | | | | |
| 12 Position | 26 | | • | • | • | • |
| 16 Position | 27 | | • | ٠ | • | • |
| 24 Position | 28 | | • | ٠ | • | • |
| 40 Position | 29 | | • | ٠ | • | • |
| | | | | | | |
| SMD Headers - Vertical | 30 - 33 | | | | | |
| 8 Position | 30 | | • | ٠ | • | • |
| 16 Position | 31 | | • | ٠ | • | • |
| 24 Position | 32 | | • | • | • | • |
| 40 Position | 33 | | • | • | • | • |
| | | | | | | |
| Application Tooling | 35 | | | | | |
| | | | | | • | |
| Numerical Index | 36 - 37 | | | | | |
| | | | · | | | |
| Imprint | 38 | | | | | |
| | | | , | | | |
| Global Contacts | 39 | | | | | |





HIGH DENSITY IN LIMITED SPACES

TH 025 CONNECTOR SERIES INTRODUCTION

Product Features

- TH 025 connectors were designed to provide better connections and performance while securing higher density in limited spaces as required in advanced electronic automotive control systems.
- Another feature is a unique contact design to resist fretting corrosion effectively while employing a lower contact force. As a result, the low insertion force of TH 025 connectors allows a lower connector mating force while offering high density for easy handling.
- This small pitch can help customers to reduce space and weight.
- TH 025 connectors feature a pitch of just 2.2mm, compared to the current standard pitch of 2.54mm.
- TH 025 connector Series have been originally designed in Japan. A European version has been implemented, in order to fulfil the European customer requirements as:
 - Mechanical coding
 - Color coding
 - Reflow leadfree process for headers
- TH European connectors are available in a full range from 4 to 40 positions.

Applications

- Wire-to-Wire, Wire-to-Board and ECU Applications
 Mirror
 - Multimedia applications
 - Display screens
 - Airbag ECU / Safety applications
 - Switches
 - Hand free cellphone
 - Immobilizer
 - Dashboard
 - Safety applications
 - Electrically controlled trunk lid latch
 - Tyre pressure monitoring system
 - Body controller management

TH 025 Connector Series Receptacle Contacts

Receptacle Contacts

Technical Features

- One piece contact designed to minimize fretting corrosion
- Terminal lance design to optimize cavity dimension

TH 025 Receptacle Contacts: 0.635 x 0.635mm

Insertion Force: 2.2 N max.

Contact Force: 2.8 N (at an early stage), 2.0 N (after ageing)

Current Carrying Capacity: 5 A (to 7 A within some conditions)

Wire Size Range: from 0.13 to 0.5mm², specific 0.75mm² application possible

Contact Finish: Tin and gold plating

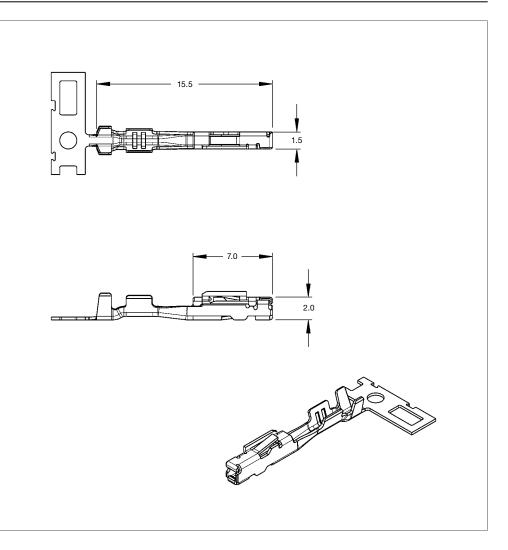
Material: Copper Alloy

Temperature Range: -40° C up to $+105^{\circ}$ C

Contact Retention Force: 100 N (retainer block)

Product Specification 108-5668 & 108-15299

Application Specification: 114-5250 & 114-15120 (for ISO wire)



Receptacle Contacts

| Wire Size | Insulation | Material | | | Part Numbers | | |
|----------------|------------------|---------------------------------|-------------|---------------------|--------------|--------------|--------------------|
| Range (mm²) | Diameter (mm) | and Finish | Strip Form | Package Quantity | Applicator | Hand Tool | Extraction Tool |
| 0.13-0.22 | 0.90–1.05 | Copper alloy, pre-tin plated | 2005097-1 | 10,000 | x-2151966-x | 7-1579014-1 | _ |
| 0.22-0.50 | 1.10–1.60 | Copper alloy, pre-tin plated | 1123343-1 | 10,000 | x-2151494-x | 7-1579014-2 | 1276565-1 🌖 |
| 0.22-0.50 | 1.10–1.60 | Gold plated (0.8 µm) | 1801069-2 | 10,000 | on request | _ | - |
| 0.22-0.50 | 1.10–1.60 | Gold plated (0.38 µm) | 1123343-2 | 10,000 | x-2151494-x | 7-1579014-2 | 1276565-1 🌖 |
| 0.50-0.75**) | 1.30–1.60 | Gold plated (0.8 µm) | 1801248-2*) | 10,000 | on request | _ | - |

*) Recommended for airbag applications (0.5mm²)

**) 0.75mm² – Application depending on wire function

•) Depending on the assembly of contact and housing

TH 025 Connector Series Tab Contacts

Tab Contacts

Technical Features

- One piece contact designed to minimize fretting corrosion
- Terminal lance design to optimize cavity dimension

TH 025 Tab Contacts: 0.635 x 0.635mm Pin

Insertion Force:

2.2 N max. Contact Force:

2.8 N (at an early stage), 2.0 N (after ageing)

Current Carrying Capacity: 5 A (to 7 A within some conditions)

Wire Size Range: from 0.13 to 0.5mm²

Contact Finish:

Tin plating Material:

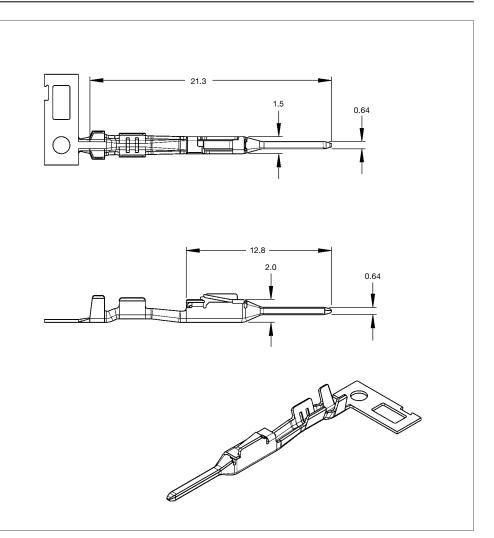
Brass

Temperature Range: -40° C up to $+105^{\circ}$ C

Contact Retention Force: 100 N (retainer block)

Product Specification: 108-5668 & 108-15299

Application Specification: 114-5302 & 114-15120 (for ISO wire)



Tab Contacts

| Wire Size | Insulation | Material | | | | | |
|----------------|------------------|----------------------|------------|---------------------|-------------|--------------|--------------------|
| Range (mm²) | Diameter (mm) | and Finish | Strip Form | Package Quantity | Applicator | Hand Tool | Extraction Tool |
| 0.13-0.22 | 0.90–1.05 | Brass, tin plated | 2005098-1 | 10,000 | x-2151966-x | 7-1579014-1 | - |
| 0.22-0.50 | 1.10–1.60 | Brass, tin plated | 1674742-1 | 10,000 | x-2151216-x | 7-1579014-3 | 1579007-8 🌖 |

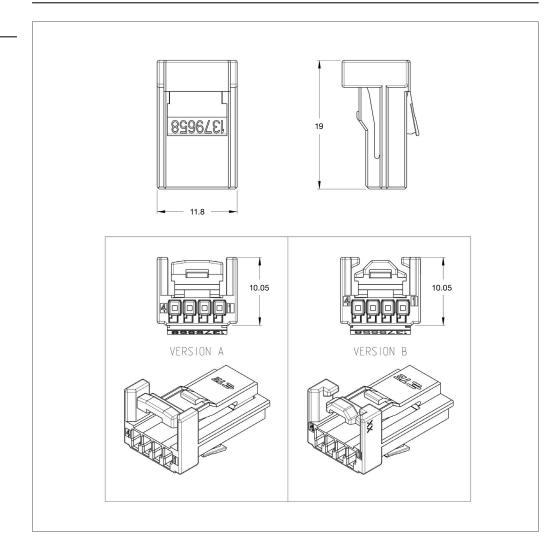
•) Depending on the assembly of contact and housing

4 Position (1 Row) Receptacle Housings

Technical Features

Compact design with 2.2mm pitch Temperature Range: -40° C up to +105° C Secondary Lock: Hinged Lid **Dielectric Strength:** 1000 V AC / 1 min. **Insulation Resistance:** $>100 \text{ M}\Omega$ **Housing Material:** PBT **Connector Mating Force:** Max. 60 N **Product Specification:** 108-15299

Application Specification: 411-15672



4 Position (1 Row) Receptacle Housings **)

| No. of | Housing | Keying | Housing | Part Numbers | | |
|--------------|----------|---------|---------|-----------------------|---------------------|-----------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379658-1* | 900 | 1379674-1 |
| | | 2 | Gray | 1379658-2 | 900 | 1379674-2 |
| 4 (1 row) | PBT | 3 | Blue | 1379658-3* | 900 | 1379674-3* |
| (1.000) | - | 4 | Green | 1379658-4* | 900 | 1379674-4* |
| | | Neutral | Natural | 1-1379658-1 | 900 | 1-1379674-1 |

*) Contact your local TE Connectivity Sales Office for availability **) An alternative design will be available for some items from 2015

8 Position (2 Rows) Receptacle Housings

Technical Features

Compact design with 2.2mm pitch Two Parts (Housing + Retainer Block) = 1 Piece Temperature Range: -40° C up to +105° C Secondary Lock: Housing Retainer Block **Dielectric Strength:** 1000 V AC / 1 min. **Insulation Resistance:** $>100 \text{ M}\Omega$ **Housing Material:** PBT **Connector Mating Force:** Max. 60 N **Product Specification:** 108-15299 **Application Specification:** 411-15672

8 Position (2 Rows) Receptacle Housings **)

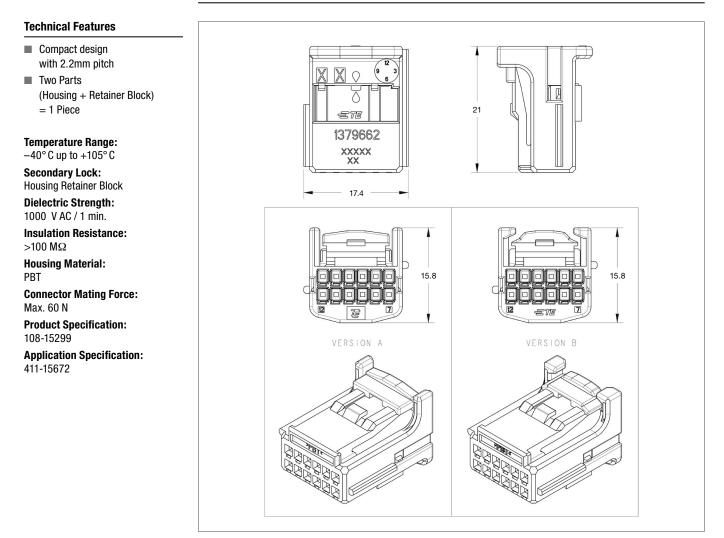
| No. of | Housing | Keying | Housing | Part Numbers | | |
|---------------|----------|---------|---------|-----------------------|---------------------|--------------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379659-1* | 1,100 | _ |
| | PBT | 2 | Gray | 1379659-2 | 1,100 | - |
| 8 (2 rows) | | 3 | Blue | 1379659-3* | 1,100 | - |
| (2.000) | | 4 | Green | 1379659-4* | 1,100 | - |
| | | Neutral | Natural | 1379659-5* | 1,100 | 1565804-2 [●]) |

 ullet) Japanese version

*) Contact your local TE Connectivity Sales Office for availability

**) An alternative design will be available for some items from 2015

12 Position (2 Rows) Receptace Housing



12 Position (2 Rows) Receptacle Housings **)

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|-----------------------|---------------------|-----------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379662-1 | 800 | 1379675-1 |
| | | 2 | Gray | 1379662-2 | 800 | 1379675-2 |
| 12 (2 rows) | PBT | 3 | Blue | 1379662-3* | 800 | 1379675-3* |
| (2.000) | | 4 | Green | 1379662-4* | 800 | 1379675-4* |
| | | Neutral | Natural | 1379662-5 | 800 | 1379675-5 |

*) Contact your local TE Connectivity Sales Office for availability **) An alternative design will be available for some items from 2015

16 Position (2 Rows) Receptace Housing

Technical Features

- Compact design with 2.2mm pitch
 Two Parts
- (Housing + Retainer Block) = 1 Piece

Temperature Range:

-40° C up to +105° C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

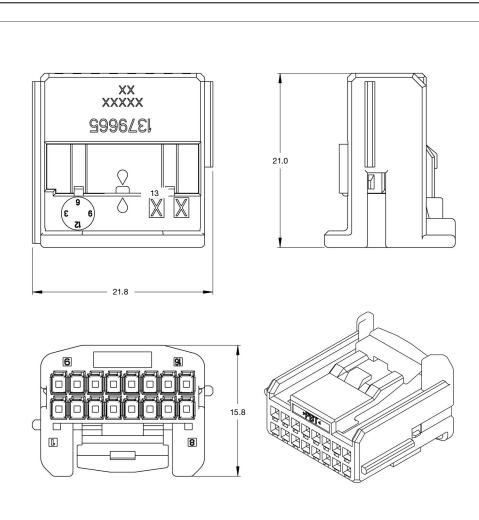
Insulation Resistance: ${>}100~\text{M}\Omega$

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672



16 Position (2 Rows) Receptacle Housings **)

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|-----------------------|---------------------|-----------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379665-1 | 700 | 1379678-1 |
| 10 | | 2 | Gray | 1379665-2 | 700 | 1379678-2 |
| 16 (2 rows) | PBT | 3 | Blue | 1379665-3 | 700 | 1379678-3* |
| (21000) | | 4 | Green | 1379665-4 | 700 | 1379678-4* |
| | | Neutral | Natural | 1379665-5 | 700 | 1379678-5 |

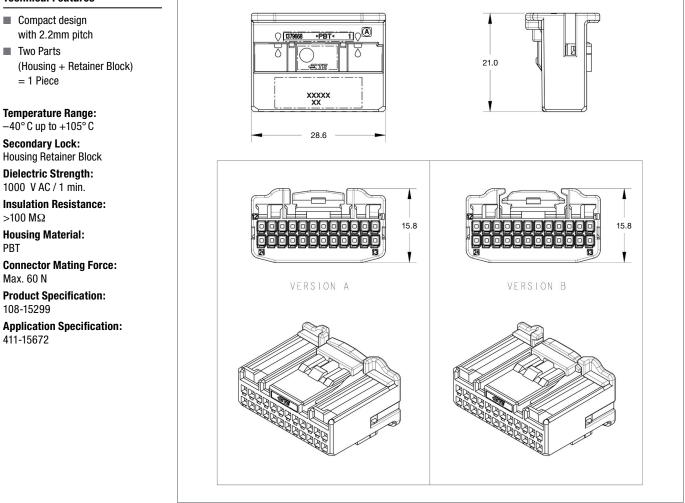
24 Position (2 Rows) Receptace Housing

Technical Features

 $>100 \text{ M}\Omega$

Max. 60 N

PBT



24 Position (2 Rows) Receptacle Housings **)

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|-----------------------|---------------------|-----------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379668-1 | 500 | 1379681-1 |
| | | 2 | Gray | 1379668-2 | 500 | 1379681-2 |
| 24 (2 rows) | PBT | 3 | Blue | 1379668-3* | 500 | 1379681-3* |
| (2.000) | | 4 | Green | 1379668-4* | 500 | 1379681-4* |
| | | Neutral | Natural | 1379668-5 | 500 | 1379681-5 |

*) Contact your local TE Connectivity Sales Office for availability **) An alternative design will be available for some items from 2015

40 Position (2 Rows) Receptace Housing

Technical Features

 Compact design with 2.2mm pitch
 Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range: -40° C up to +105° C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 VAC/1 min.

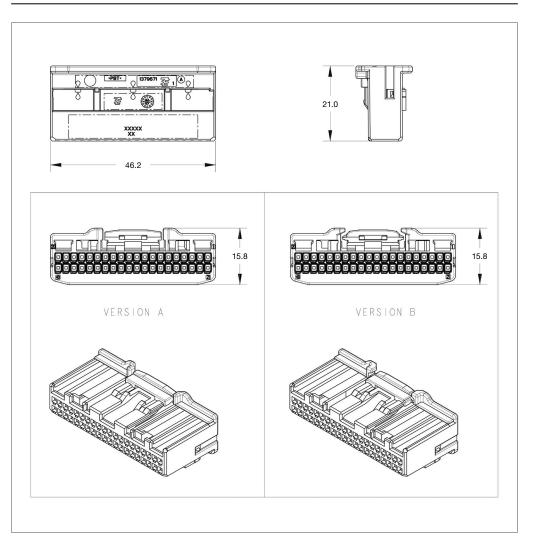
Insulation Resistance: ${>}100~\text{M}\Omega$

Housing Material: PBT

Connector Mating Force: Max. 100 N

Product Specification: 108-15299

Application Specification: 411-15672



40 Position (2 Rows) Receptacle Housings **)

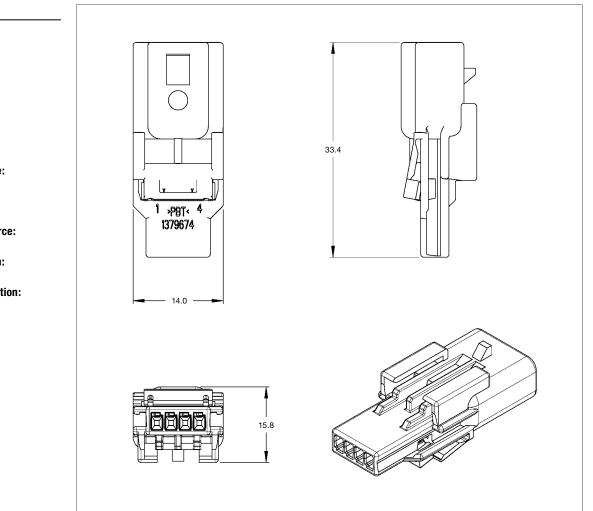
| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|-----------------------|---------------------|-----------------------|
| Positions | Material | Options | Color | Receptacle Housing | Package Quantity | Mating Tab Housing |
| | | 1 | Black | 1379671-1 | 400 | - |
| 10 | PBT | 2 | Gray | 1379671-2 | 400 | - |
| 40 (2 rows) | | 3 | Blue | 1379671-3 | 400 | - |
| (210110) | | 4 | Green | 1379671-4 | 400 | _ |
| | | Neutral | Natural | 1379671-5 | 400 | - |

**) An alternative design will be available for some items from 2015

4 Position (1 Row) Tab Housings

Technical Features

Compact design with 2.2mm pitch Temperature Range: -40° C up to +105° C Secondary Lock: Hinged Lid **Dielectric Strength:** 1000 V AC / 1 min. **Insulation Resistance:** $>100 \text{ M}\Omega$ **Housing Material:** PBT **Connector Mating Force:** Max. 60 N **Product Specification:** 108-15299 **Application Specification:** 411-15672



4 Position (1 Row) Tab Housings

| No. of | Housing | Keying | Housing | Part Numbers | | |
|--------------|----------|---------|---------|----------------|-----|-------------|
| Positions | Material | Options | Color | Tab Housing | | |
| | | 1 | Black | 1379674-1 | 800 | 1379658-1 |
| | | 2 | Gray | 1379674-2 | 800 | 1379658-2 |
| 4 (1 row) | PBT | 3 | Blue | 1379674-3* | 800 | 1379658-3* |
| (1.1011) | - | 4 | Green | 1379674-4* | 800 | 1379658-4* |
| | | Neutral | Natural | 1-1379674-1 | 800 | 1-1379658-1 |

8 Position (2 Row) Tab Housings

Technical Features

- 2.2mm pitch (Japanese Version)
 Two Parts
 (Housing + Potainer Pl
- (Housing + Retainer Block) = 1 Piece

Temperature Range:

 $-40^\circ\,\text{C}$ up to $+105^\circ\,\text{C}$

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

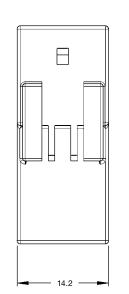
Insulation Resistance: ${>}100~\text{M}\Omega$

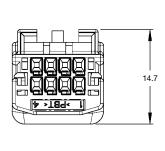
Housing Material: PBT

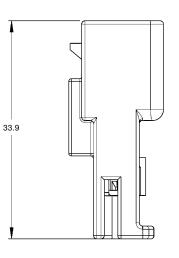
Connector Mating Force: Max. 60 N

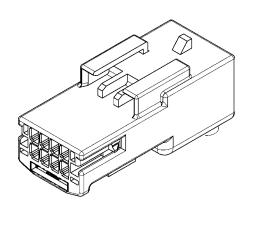
Product Specification: 108-5787

Application Specification: 411-78011









8 Position (2 Rows) Tab Housings

| No. of | Housing | Keying | Housing | | Part Numbers | | |
|------------|----------|---------|------------------|----------------|---------------------|------------------------------|--|
| Positions | Material | Options | Housing Color | Tab Housing | Package Quantity | Mating Receptacle Housing | |
| 8 (2 rows) | PBT | Neutral | Natural | 1565804-2 | 200 | 1379659-5 | |

12 Position (2 Rows) Tab Housings

Technical Features

 Compact design with 2.2mm pitch
 Two Parts (Housing + Retainer Block) = 1 Piece
 Temperature Range:

 -40° C up to $+105^{\circ}$ C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

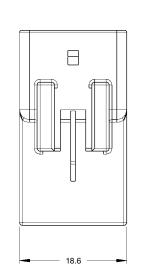
Insulation Resistance:

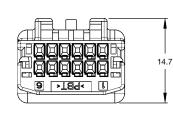
>100 MΩ Housing Material:

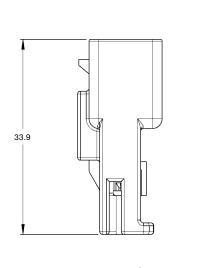
PBT Connector Mating Force: Max. 60 N

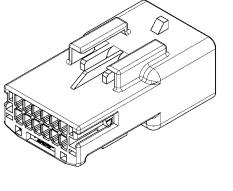
Product Specification: 108-15299

Application Specification: 411-15672









12 Position (2 Rows) Tab Housings

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|----------------|-----|------------|
| Positions | Material | Options | Color | Tab Housing | | |
| | | 1 | Black | 1379675-1 | 500 | 1379662-1 |
| 10 | | 2 | Gray | 1379675-2 | 500 | 1379662-2 |
| 12 (2 rows) | PBT | 3 | Blue | 1379675-3* | 500 | 1379662-3* |
| (210110) | | 4 | Green | 1379675-4* | 500 | 1379662-4* |
| | | Neutral | Natural | 1379675-5 | 500 | 1379662-5 |

16 Position (2 Rows) Tab Housings

Technical Features

- Compact design with 2.2mm pitch
- Two Parts (Housing + Retainer Block)
 = 1 Piece

Temperature Range:

 -40° C up to $+105^{\circ}$ C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

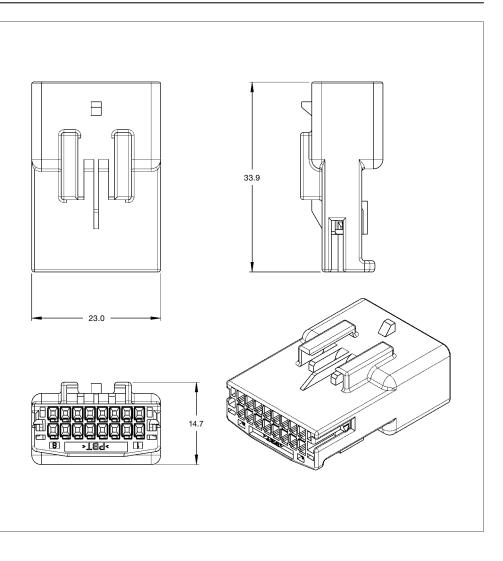
Insulation Resistance: ${>}100~\text{M}\Omega$

Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672



16 Position (2 Rows) Tab Housings

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|----------------|-----|------------------------------|
| Positions | Material | Options | Color | Tab Housing | | Mating Receptacle Housing |
| | | 1 | Black | 1379678-1 | 400 | 1379665-1 |
| 10 | | 2 | Gray | 1379678-2 | 400 | 1379665-2 |
| 16 (2 rows) | PBT | 3 | Blue | 1379678-3* | 400 | 1379665-3* |
| (= : : : : :) | | 4 | Green | 1379678-4* | 400 | 1379665-4* |
| | | Neutral | Natural | 1379678-5 | 400 | 1379665-5 |

24 Position (2 Rows) Tab Housings

Technical Features

 Compact design with 2.2mm pitch
 Two Parts (Housing + Retainer Block) = 1 Piece

Temperature Range: -40° C up to $+105^{\circ}$ C

Secondary Lock: Housing Retainer Block

Dielectric Strength: 1000 V AC / 1 min.

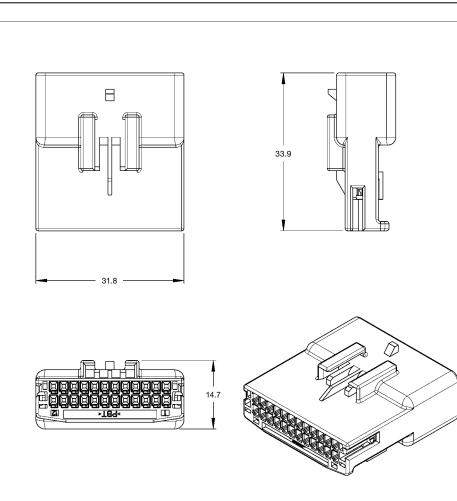
Insulation Resistance:

>100 MΩ Housing Material: PBT

Connector Mating Force: Max. 60 N

Product Specification: 108-15299

Application Specification: 411-15672



24 Position (2 Rows) Tab Housings

| No. of | Housing | Keying | Housing | Part Numbers | | |
|----------------|----------|---------|---------|----------------|-----|------------|
| Positions | Material | Options | Color | Tab Housing | | |
| | | 1 | Black | 1379681-1 | 300 | 1379668-1 |
| | | 2 | Gray | 1379681-2 | 300 | 1379668-2 |
| 24 (2 rows) | PBT | 3 | Blue | 1379681-3* | 300 | 1379668-3* |
| (2:000) | - | 4 | Green | 1379681-4* | 300 | 1379668-4* |
| | | Neutral | Natural | 1379681-5 | 300 | 1379668-5 |

TH 025 Connector Series Headers - Vertical Type

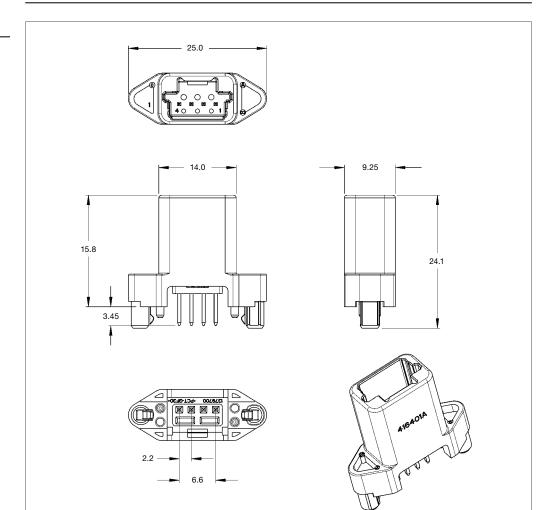
4 Position Vertical Header

Technical Features

- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board Locks
- Locating Pin (PCB Mechanical Coding)

Housing Material: PCT

Pin Material: Copper Alloy Product Specification: 108-15326



4 Position Vertical Header

| No. of Housing | | Koving | Keying Housing · | | Part Numbers | | | | |
|----------------|----------|---------|------------------|-----------|---------------------|-----------|------------------------------|--|--|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Receptacle Housing | | |
| 4 | 4 PCT | 1 | Black | 1379700-1 | 1,400 | Tray | 1379658-1 | | |
| | | 2 | Gray | 1379700-2 | 1,400 | Tray | 1379658-2 | | |

TH 025 Connector Series Headers - Vertical Type

24 Position Vertical Header

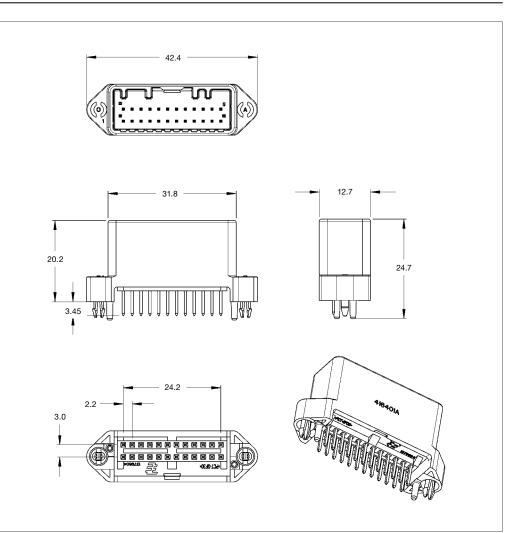
Technical Features

- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board Locks
- Locating Pin (PCB Mechanical Coding)

Housing Material: PCT

Pin Material: Copper Alloy

Product Specification: 108-15422



24 Position Vertical Header

| No. of | Housing | Keying | • • | Part Numbers | | | | | |
|-----------|----------|---------|-------|--------------|---------------------|-----------|------------------------------|--|--|
| Positions | Material | Options | | Header | Package Quantity | Packaging | Mating Receptacle Housing | | |
| 24 | РСТ | 1 | Black | 1379604-1 | 650 | Tray | 1379668-1 | | |
| | 2 | 2 | Gray | 1379604-2 | 650 | Tray | 1379668-2 | | |

TH 025 Connector Series Headers - Vertical Type

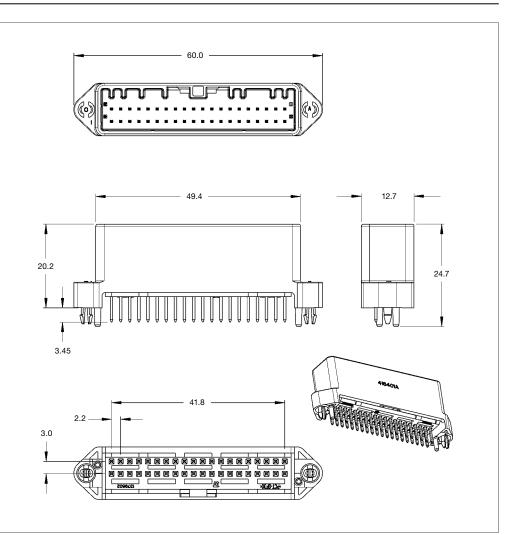
40 Position Vertical Header

Technical Features

- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board Locks
- Locating Pin (PCB Mechanical Coding)

Housing Material: PCT

Pin Material: Copper Alloy Product Specification: 108-15422



40 Position Vertical Header

| No. of Positions | Housing | Keying Options | Housing - Color | Part Numbers | | | | | |
|---------------------|----------|-------------------|--------------------|--------------|---------------------|-----------|------------------------------|-----------|--|
| | Material | | | Header | Package Quantity | Packaging | Mating Receptacle Housing | | |
| | PCT | 40 PCT | 1 | Black | 1-1379602-1 | 390 | Tray | 1379671-1 | |
| 40 | | | 2 | Gray | 1-1379602-2 | 390 | Tray | 1379671-2 | |
| | | 4 | Green | 1-1379602-4 | 390 | Tray | 1379671-4 | | |

Other designs available on request

TH 025 Connector Series Headers - Right Angle

8 Position Right-Angle Header

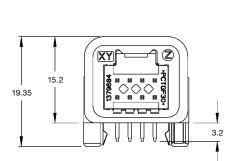
Technical Features

- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board Locks
- Locating Pin (PCB Mechanical Coding)

Housing Material: PCT

Pin Material: Copper Alloy

Product Specification: 108-15383



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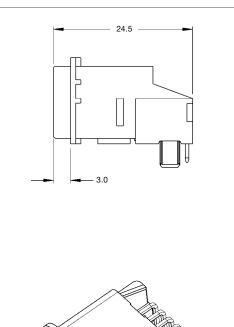
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| No. of | Housing Material | Keying Options | Housing — Color | Part Numbers | | | | | |
|-----------|---------------------|-------------------|--------------------|--------------|---------------------|--------------|------------------------------|-----------|--|
| Positions | | | | Header | Package Quantity | Packaging | Mating Receptacle Housing | | |
| | PCT | 1 | Black | 1379684-1 | 1,210 | Tray | 1379659-1 | | |
| | | 2 | Gray | 1379684-2 | 1,100 | Special Tray | 1379659-2 | | |
| | | PCT | 3 | Blue | 1379684-3 | 1,100 | Special Tray | 1379659-3 | |
| 8 | | | 1 | Black | 1379684-4 | 1,600 | Tubes | 1379659-1 | |
| U | | | 2 | Gray | 1379684-5 | 1,600 | Tubes | 1379659-2 | |
| | | | 3 | Blue | 1379684-6 | 1,600 | Tubes | 1379659-3 | |
| | | 3 | Blue | 1379684-7 | 1,210 | Tray | 1379659-3 | | |
| | | 1 | Black | 1-1379684-1 | 1,100 | Special Tray | 1379659-1 | | |

TH 025 Connector Series Headers - Right Angle

4 Position Right-Angle Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

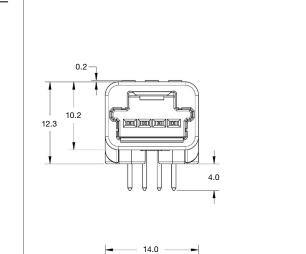
Housing Material:

See table

Pin Material: Brass Product Specification:

108-5664

Application Specification: 114-5250



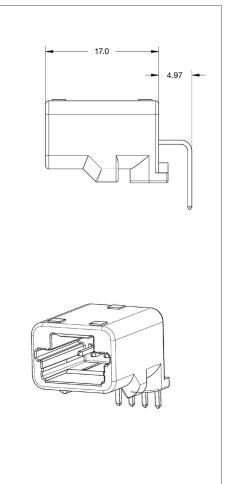
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4 Position Right-Angle Header

| No. of Positions | Housing Material | Keying Options | Housing Color | Part Numbers | | | | | |
|---------------------|---------------------|-------------------|------------------|--------------|---------------------|-----------|---------------------------------|----------------------------------|--|
| | | | | Header | Package Quantity | Packaging | Mating Recep for use in EMEA | tacle Housing for use in Asia | |
| | PBT | 1 | Natural | 1565749-1 | - | Tube | 1379658-1 | 1473672-1 | |
| | PBT | 2 | Gray | 1565749-3 | - | Tube | 1379658-2 | 1473672-2 | |
| | SPS | 2 | Gray | 1565749-4 | - | Tube | 1379658-2 | 1473672-2 | |
| - | SPS | 2 | Gray | 1565749-5 | - | Tube | 1379658-2 | 1473672-2 | |
| | PBT | 1 | Natural | 1565749-6 | _ | Tube | 1379658-1 | 1473672-1 | |
| 4 - | SPS | 1 | Natural | 1565749-7 | - | Tube | 1379658-1 | 1473672-1 | |
| | SPS | 2 | Gray | 1565749-8 | - | Tube | 1379658-2 | 1473672-2 | |
| | SPS | 1 | Natural | 1-1565749-0 | - | Tube | 1379658-1 | 1473672-1 | |
| | PBT | 1 | Natural | 1-1565749-1 | _ | Tube | 1379658-1 | 1473672-1 | |
| | PBT | 2 | Gray | 1-1565749-2 | _ | Tube | 1379658-2 | 1473672-2 | |
| | PBT | 2 | Gray | 1-1565749-3 | _ | Tube | 1379658-2 | 1473672-2 | |

This header will mate with both the EMEA and Asia receptacle. Please review receptacle features prior to selection.

TH 025 Connector Series Headers - Right Angle

8 Position Right-Angle Header

Technical Features

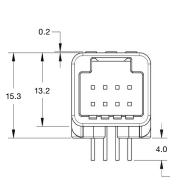
- Compact design with 2.2mm pitch
- Board fixation screw

Housing Material: See table

Pin Material: Brass

Product Specification: 108-5668

Application Specification: 114-5250



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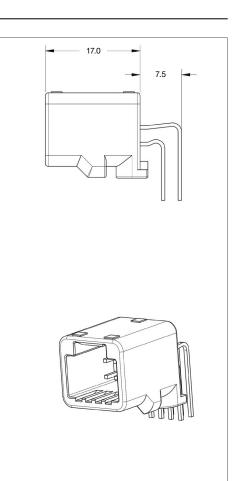
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8 Position Right-Angle Header

| No. of Positions | Housing | Keying | Housing Color | Part Numbers | | | | | |
|---------------------|----------|---------|------------------|--------------|---------------------|-----------|----------------------------------|---------------------------------|--|
| | Material | Options | | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | acle Housing for use in Asia | |
| | PBT | | Natural | 1376350-1 | | | | | |
| | PBT | | Natural | 1376350-2 | | | | | |
| | PBT | | Natural | 1376350-3 | | | | | |
| | PBT | | Black | 1376350-4 | | | | | |
| | PBT | | Black | 1376350-6 | | | | | |
| | PBT | | Natural | 1376350-7 | | | | | |
| | PBT | | Black | 1376350-8 | | | | | |
| | SPS | | Natural | 1376350-9 | | | | | |
| | SPS | | Natural | 1-1376350-0 | | | | | |
| | SPS | | Black | 1-1376350-1 | | | | | |
| | SPS | | Natural | 1-1376350-2 | | | | | |
| 8 | SPS | Neutral | Natural | 1-1376350-3 | | Tube | 1379659-5 | 1376352-1 | |
| | PBT | | Black | 1-1376350-4 | | | | | |
| | PBT | | Black | 1-1376350-5 | | | | | |
| | PBT | | Black | 1-1376350-6 | | | | | |
| | PBT | | Natural | 6376350-3 | | | | | |
| | PBT | | Black | 6376350-4 | | | | | |
| | PBT | | Natural | 1-1376350-7 | | | | | |
| | SPS | | Black | 1-1376350-9 | | | | | |
| | SPS | | Natural | 2-1376350-0 | _ | | | | |
| - | PBT | | Natural | 2-1376350-1 | | | | | |
| | PBT | | Black | 2-1376350-2 | | | | | |
| | SPS | | Natural | 2-1376350-3 | _ | | | | |
| | SPS | | Natural | 2-1376350-5 | | | | | |

This header will mate with both the EMEA and Asia receptacle. Please review receptacle features prior to selection.

12 Position Right-Angle Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

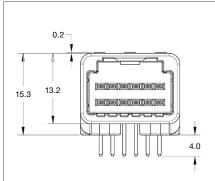
Housing Material:

see table

Pin Material: Brass

Product Specification: 108-5668

Appication Specification: 114-5250



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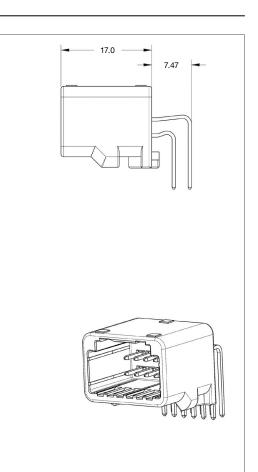
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12 Position Right-Angle Header

| No. of | Housing | Keying | Housing | | | Part Numbers | | cle Housing for use in Asia |
|-----------|----------|---------|---------|-------------|---------------------|--------------|----------------------------------|--------------------------------|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | |
| | PBT | | Natural | 1318772-1 | | | | |
| | PBT | | Natural | 1318772-2 | _ | | | |
| | PBT | | Natural | 1318772-3 | _ | | | |
| | PBT | | Black | 1318772-4 | | | | |
| | PBT | | Black | 1318772-5 | _ | | | |
| | PBT | | Natural | 1318772-6 | _ | | | |
| | PBT | | Black | 1318772-7 | _ | | | |
| | PBT | | Natural | 1318772-9 | _ | | | |
| | PBT | | Black | 1-1318772-0 | _ | | | |
| | PBT | | Black | 1-1318772-2 | _ | | | |
| | SPS | | Natural | 1-1318772-3 | _ | | | |
| | SPS | | Natural | 1-1318772-4 | _ | | | |
| 12 | SPS | Neutral | Black | 1-1318772-5 | | Tube | 1379662-5 | 1318774-1 |
| | SPS | | Natural | 1-1318772-6 | | | | |
| | SPS | | Black | 1-1318772-7 | | | | |
| | SPS | | Black | 1-1318772-8 | _ | | | |
| | SPS | | Natural | 1-1318772-9 | _ | | | |
| | PBT | | Black | 2-1318772-0 | _ | | | |
| | PBT | | Black | 2-1318772-1 | _ | | | |
| | PBT | | Natural | 6318772-3 | _ | | | |
| | PBT | | Black | 6318772-4 | _ | | | |
| - | PBT | | Black | 6318772-5 | | | | |
| | PBT | | Natural | 2-1318772-2 | | | | |
| | PBT | | Black | 2-1318772-3 | | | | |
| | SPS | | Black | 2-1318772-4 | | | | |

16 Position Right-Angle Header

Technical Features

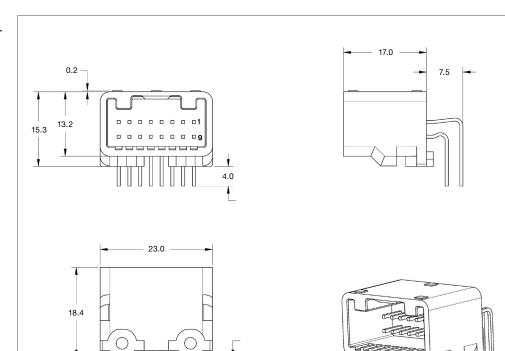
- Compact design with 2.2mm pitch
- Board fixation screw

Housing Material: See table

Pin Material: Brass

Product Specification: 108-5668

Application Specification: 114-5250



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16 Position Right-Angle Header

| No. of | Housing | Koving | Housing | | | Part Numbers | Mating Receptacle Housing for use in EMEA for use in Asia | |
|-----------|----------|-------------------|---------|-------------|---------------------|--------------|--|-----------|
| Positions | Material | Keying Options | Color | Header | Package Quantity | Packaging | | |
| | PBT | | Natural | 1318382-1 | | | | |
| | PBT | - - - - | Natural | 1318382-2 | _ | | | |
| | PBT | _ | Natural | 1318382-3 | _ | | | |
| | PBT | - | Natural | 1318382-4 | _ | | | |
| | PBT | _ | Black | 1318382-5 | _ | | | |
| | PBT | _ | Natural | 1318382-6 | _ | | | |
| | SPS | _ | Natural | 1318382-8 | _ | | | |
| | PBT | - | Black | 1318382-9 | _ | | | |
| | PBT | _ | Black | 1-1318382-0 | _ | | | |
| 16 | SPS | Neutral | Natural | 1-1318382-1 | | Tube | 1379665-5 | 1318386-1 |
| | SPS | _ | Natural | 1-1318382-2 | _ | | | |
| | PBT | - | Black | 1-1318382-3 | _ | | | |
| | SPS | _ | Natural | 1-1318382-4 | _ | | | |
| | SPS | _ | Natural | 1-1318382-5 | | | | |
| | SPS | _ | Natural | 1-1318382-6 | _ | | | |
| | SPS | - | Natural | 1-1318382-7 | _ | | | |
| | PBT | - | Natural | 1-1318382-8 | _ | | | |
| | PBT | - | Natural | 6318382-3 | — | | | |
| | PBT | | Black | 6318382-5 | _ | | | |
| | PBT | - | Natural | 6318382-6 | _ | | | |

This header will mate with both the EMEA and Asia receptacle. Please review receptacle features prior to selection.

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24 Position Right-Angle Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

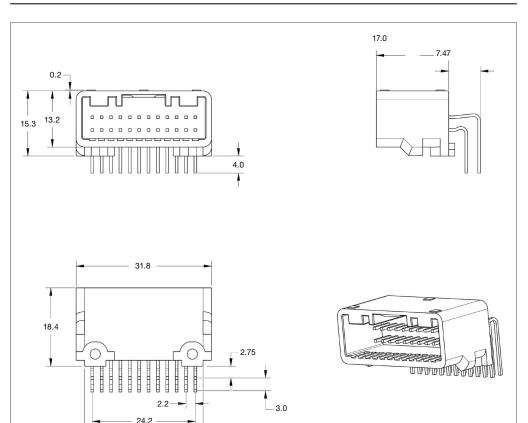
Housing Material:

see table Pin Material:

Brass
Product Specification:

108-5668

Appication Specification: 114-5250



24 Position Right-Angle Header

| No. of | Housing | Koving | Housing | | | Part Numbers | | | |
|---------------------|---------------------|-------------------|------------------|-------------|----------|--------------|---------------------------|-----------------|--|
| No. of Positions | Housing Material | Keying Options | Housing Color | Header | Package | Packaging | Mating Receptacle Housing | | |
| | | • | | nouuor | Quantity | ruonuging | for use in EMEA | for use in Asia | |
| | PBT | | Natural | 1318853-1 | | | | | |
| | PBT | | Natural | 1318853-2 | | | | | |
| | PBT | _ | Natural | 1318853-3 | _ | | | | |
| | PBT | | Black | 1318853-4 | | | | | |
| | PBT | | Black | 1318853-5 | | | | | |
| | PBT | | Natural | 1318853-8 | | Tube | 1379668-5 | 1318917-1 | |
| 24 | PBT | Neutral | Black | 1318853-9 | _ | | | | |
| | PBT | | Natural | 1-1318853-0 | | | | | |
| | PBT | | Black | 1-1318853-1 | | | | | |
| | PBT | | Natural | 1-1318853-2 | | | | | |
| | SPS | | Natural | 1-1318853-3 | _ | | | | |
| | SPS | | Black | 1-1318853-6 | _ | | | | |
| | SPS | | Natural | 1-1318853-7 | | | | | |

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32 Position Right-Angle Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

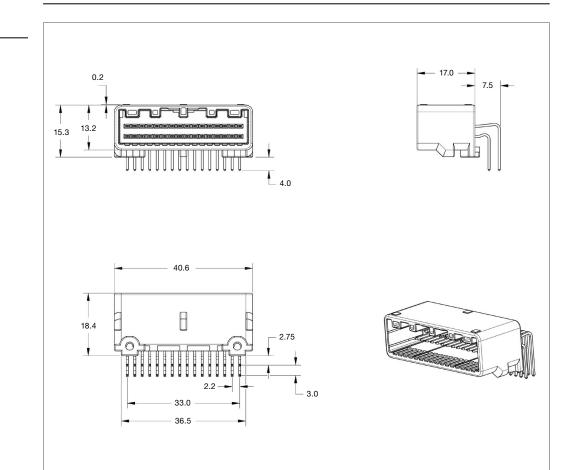
Housing Material: See table

Pin Material:

Brass
Product Specification:

108-5668

Application Specification: 114-5250



32 Position Right-Angle Header

| No. of | Housing | Keying | Housing | Part Numbers | | | | |
|-----------|----------|---------|---------|--------------|----------|-----------|---------------------------|-----------------|
| Positions | Material | Options | Color | Header | Package | Packaging | Mating Receptacle Housing | |
| | | | | Quantity | Quantity | | for use in EMEA | for use in Asia |
| | PBT | _ | | 1318745-1 | | | | |
| | PBT | _ | | 1318745-2 | | | | |
| | PBT | _ | | 1318745-3 | | | | |
| | PBT | _ | | 1318745-4 | | | | |
| 32 | SPS | Neutral | Natural | 1318745-5 | _ | Tube | NA | 1318747-1 |
| | PBT | _ | | 1318745-6 | | | | |
| | SPS | - | | 1318745-7 | | | | |
| | SPS | - | | 1318745-8 | _ | | | |
| | PBT | - | | 1318745-9 | _ | | | |
| | PBT | _ | | 1-1318745-0 | | | | |

40 Position Right-Angle Header

Technical Features

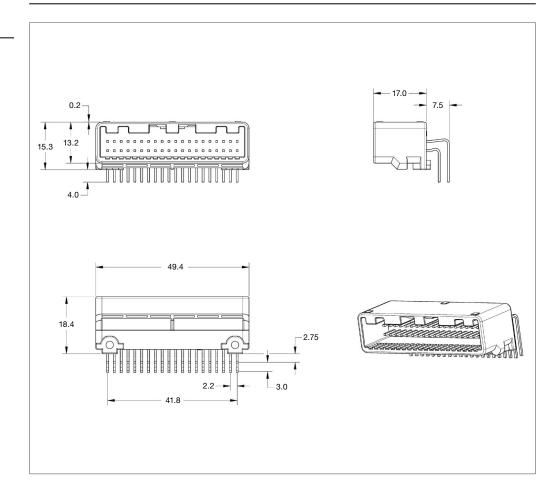
- Compact design with 2.2mm pitch
- Board fixation screw

Housing Material:

see table **Pin Material:** Brass

Product Specification: 108-5668

Appication Specification: N/A



40 Position Right-Angle Header

| No. of | Housing | Keying | Housing | | | Part Numbers | | Cle Housing for use in Asia |
|-----------|----------|---------|---------|-------------|---------------------|--------------|----------------------------------|--------------------------------|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | |
| | PBT | | Natural | 1318384-1 | | | | |
| | PBT | | Natural | 1318384-2 | _ | | | |
| | PBT | | Natural | 1318384-4 | | | | |
| | PBT | | Natural | 1318384-5 | | | | |
| | PBT | | Natural | 1318384-7 | | | | |
| | PBT | | Black | 1-1318384-0 | | | | |
| | SPS | | Natural | 1-1318384-2 | _ | | | |
| | SPS | | Natural | 1-1318384-3 | _ | | | |
| | PBT | | Black | 1-1318384-4 | | | | |
| 40 | PBT | Neutral | Natural | 1-1318384-5 | | Tube | 1379671-5 | 1318389-1 |
| | PBT | | Natural | 1-1318384-6 | _ | | | |
| | SPS | | Natural | 1-1318384-7 | | | | |
| | PBT | | Natural | 1-1318384-8 | | | | |
| | PBT | | Natural | 1-1318384-9 | | | | |
| | PBT | | Natural | 6318384-5 | _ | | | |
| | SPS | | Natural | 2-1318384-0 | _ | | | |
| | SPS | | Natural | 2-1318384-3 | | | | |
| | PBT | | Black | 2-1318384-4 | | | | |
| | PBT | | Natural | 2-1318384-6 | | | | |

TH 025 Connector Series <u>Headers -</u> Vertical

12 Position Vertical Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

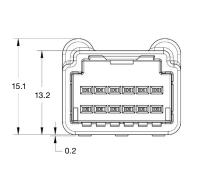
Housing Material:

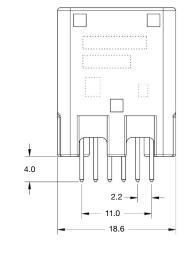
See table

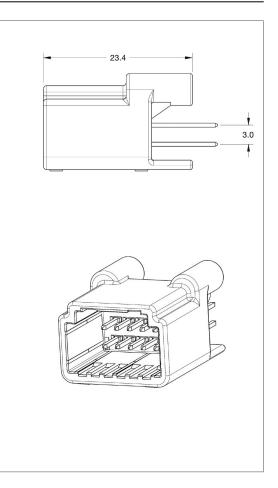
Pin Material: Brass

Product Specification: 108-5668

Application Specification: 114-5250







12 Position Vertical Header

| No. of | Housing | Kowing | Housing | | | Part Numbers | | | | | |
|-----------|----------|-------------------|--------------|-------------|---------------------|--------------|----------------------------------|----------------------------------|--|--|--|
| Positions | Material | Keying Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | tacle Housing for use in Asia | | | |
| | PBT | | Natural | 1473898-1 | • | | | | | | |
| | SPS | | Natural | 1473898-2 | | | | | | | |
| | SPS | | Natural | 1473898-3 | | | | | | | |
| | SPS | | Natural | 1473898-4 | | | | | | | |
| 12 | SPS | OptionsNeutral | Natural 1473 | 1473898-5 | | Tube | 1379662-5 | 1318774-1 | | | |
| | PBT | | Natural | 1473898-6 | | | | | | | |
| | SPS | | Natural | 1473898-7 | | | | | | | |
| | SPS | | Gray | 1473898-8 | | | | | | | |
| | SPS | | Gray | 1473898-9 | | | | | | | |
| | PBT | | Natural | 1-1473898-1 | | | | | | | |

TH 025 Connector Series Headers – Vertical

16 Position Vertical Header

Technical Features

 Compact design with 2.2mm pitch

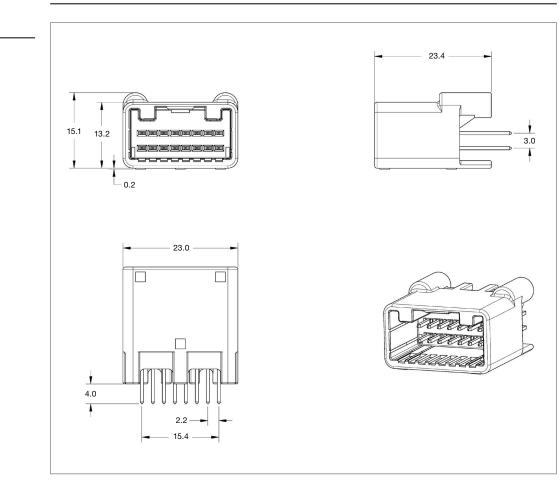
Board fixation screw

Housing Material:

See table Pin Material: Brass Product Specification:

108-5668

Application Specification: 114-5250



16 Position Vertical Header

| No. of | Housing | Keying | Housing | | | Part Numbers | | |
|-----------|----------|---------|---------|-----------|---------------------|--------------|----------------------------------|---|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | tacle Housing for use in Asia 1318386-1 |
| | | | Natural | 1565476-1 | | | | |
| 16 | PBT | Neutral | Black | 1565476-2 | | Tube | 1379665-5 | 1318386-1 |
| | | | Natural | 1565476-4 | | | | |

TH 025 Connector Series Headers - Vertical

24 Position Vertical Header

Technical Features

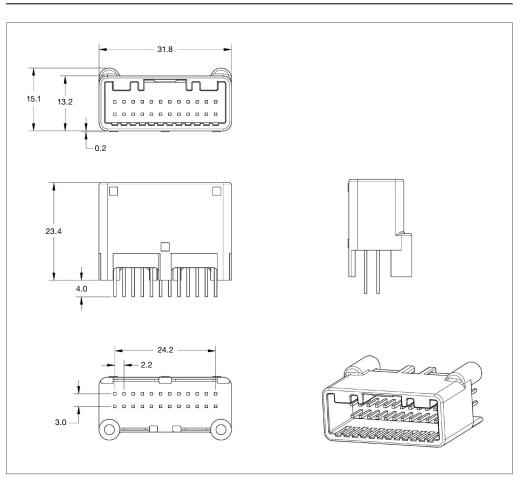
- Compact design with 2.2mm pitch
- Board fixation screw

Housing Material: See table

Pin Material: Brass Product Specification:

108-5668

Application Specification: 114-5250



24 Position Vertical Header

| No. of | Housing | Keying | Housing | Part Numbers | | | | |
|------------|----------|---------|---------|--------------|----------|-----------|---------------------------|-----------------|
| Positions | Material | Options | Color | Header | Package | Packaging | Mating Receptacle Housing | |
| 1031110113 | Matchai | options | 00101 | neauer | Quantity | Fackaying | for use in EMEA | for use in Asia |
| | PBT | _ | Natural | 1376111-1 | _ | | | |
| | PBT | | Natural | 1376111-2 | _ | | | |
| | SPS | | Natural | 1376111-5 | _ | | | |
| | SPS | | Natural | 1376111-6 | | | | |
| 24 | PBT | Neutral | Natural | 1376111-7 | _ | Tube | 1379668-5 | 1318917-1 |
| | SPS | | Black | 1376111-8 | | | | |
| | SPS | | Black | 1376111-9 | - | | | |
| | SPS | | Natural | 1-1376111-1 | _ | | | |
| | SPS | | Black | 1-1376111-3 | - | | | |

TH 025 Connector Series Headers – Vertical

40 Position Vertical Header

Technical Features

- Compact design with 2.2mm pitch
- Board fixation screw

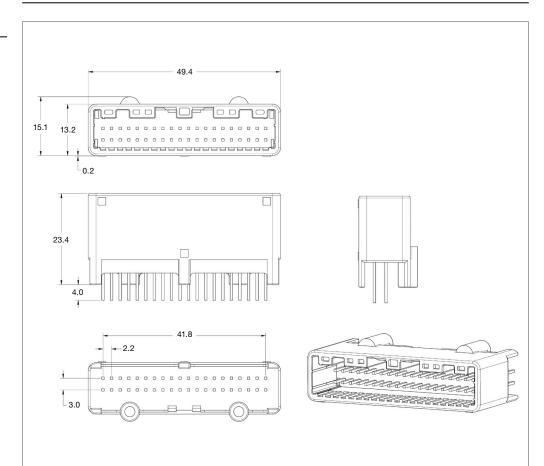
Housing Material:

See table

Pin Material: Brass Product Specification:

108-5668

Application Specification: 114-5250



40 Position Vertical Header

| No. of | Housing | Keying | Housing | | | Part Numbers | | |
|-----------|----------|---------|---------|-------------|----------|--------------|---------------------------|-----------------|
| Positions | Material | Options | Color | Header | Package | Packaging | Mating Receptacle Housing | |
| | | - | | licauci | Quantity | Tuokuging | for use in EMEA | for use in Asia |
| | PBT | | Natural | 1376113-1 | | | | |
| | PBT | | Natural | 1376113-2 | | | | |
| | SPS | | Natural | 1376113-5 | | | | |
| | PBT | | Natural | 1376113-6 | | | | |
| 40 | SPS | Neutral | Natural | 1376113-7 | _ | Tube | 1379668-5 | 1318917-1 |
| | PBT | _ | Natural | 1376113-8 | | | | |
| | SPS | _ | Natural | 1376113-9 | | | | |
| | SPS | | Black | 1-1376113-1 | _ | | | |
| | PBT | _ · | Natural | 1-1376113-3 | — | | | |

TH 025 Connector Series SMD Headers - Vertical

8 Position SMD Header – Vertical

Technical Features

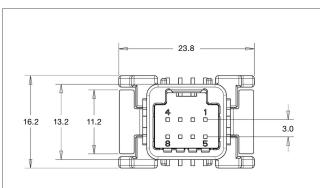
- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board fixation screw
- Locating Pin (PCB Mechanical Coding)

Housing Material: See table

Pin Material: Brass

Product Specification: 108-78295

Application Specification: 411-78145



19.4

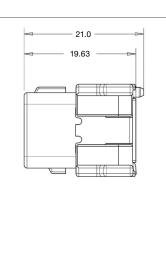
14.0 -

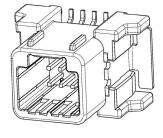
E

6.6

19.63

₩ ___2.2 2.8





8 Position SMD Header – Vertical

| No. of | Housing | Keying | Housing | Part Numbers | | | | | |
|-----------|----------|---------|---------|--------------|---------------------|-----------|----------------------------------|----------------------------------|--|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | tacle Housing for use in Asia | |
| | | | | 1939403-1 | _ | Tube | | | |
| 8 | PPS | Neutral | Black | 1939403-2 | - | Tube | 1379659-5 | 1376352-1 | |
| | | | | 1939403-3 | - | Tray | | | |

TH 025 Connector Series SMD Headers – Vertical

16 Position SMD Header – Vertical

Technical Features

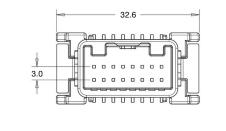
- Compact design with 2.2mm pitch
- Designed for Reflow Leadfree Process
- Board fixation screwLocating Pin
- (PCB Mechanical Coding)

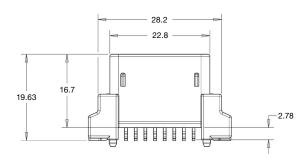
Housing Material: See table

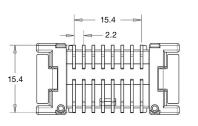
Pin Material: Brass

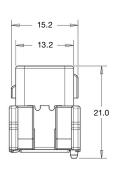
Product Specification: 108-78295

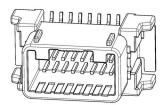
Application Specification: 411-78145











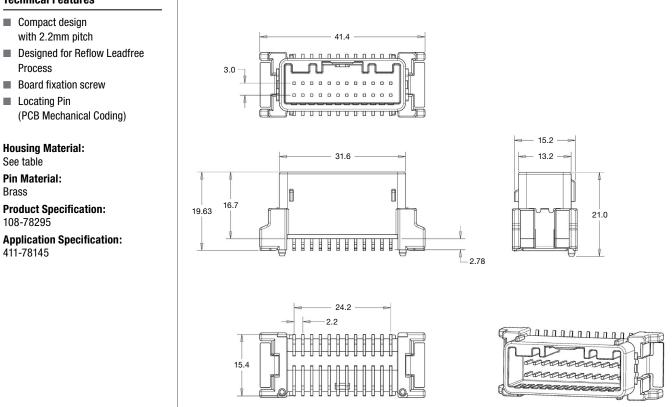
16 Position SMD Header – Vertical

| No. of | Housing | Keying | Housing | | | Part Numbers | | |
|-----------|----------|---------|---------|-----------|---------------------|--------------|----------------------------------|----------------------------------|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | tacle Housing for use in Asia |
| | | | | 1717396-1 | - | Tube | | |
| 16 | PPS | Neutral | Black | 1717396-2 | - | Tube | 1379665-5 | 1318386-1 |
| | | | | 1717396-3 | - | Tray | | |

TH 025 Connector Series SMD Headers - Vertical

24 Position SMD Header – Vertical

Technical Features



24 Position SMD Header – Vertical

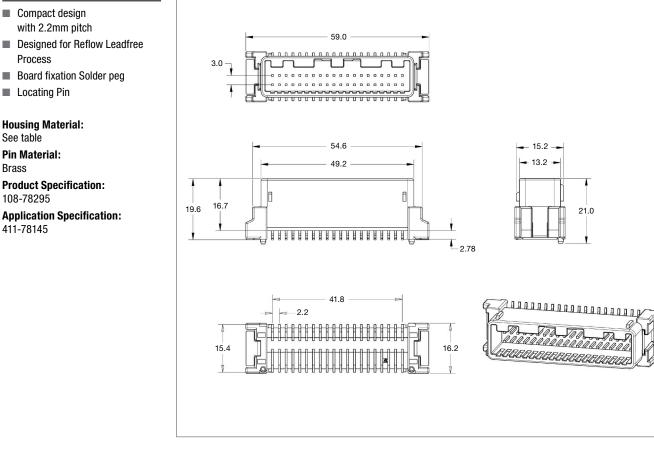
| No. of | Housina | Keying | Housing | | | Part Numbers | Mating Receptacle Housing for use in EMEA for use in Asia | | |
|-----------|----------|---------|---------|------------------------|---------------------|--------------|--|-----------|--|
| Positions | Material | Options | Color | Header | Package Quantity | Packaging | • • | • | |
| 24 | PPS | Neutral | Black | 1717394-1 1717394-2 | _ | Tube | 1379668-5 | 1318917-1 | |

TH 025 Connector Series SMD Headers - Vertical

40 Position SMD Header - Vertical

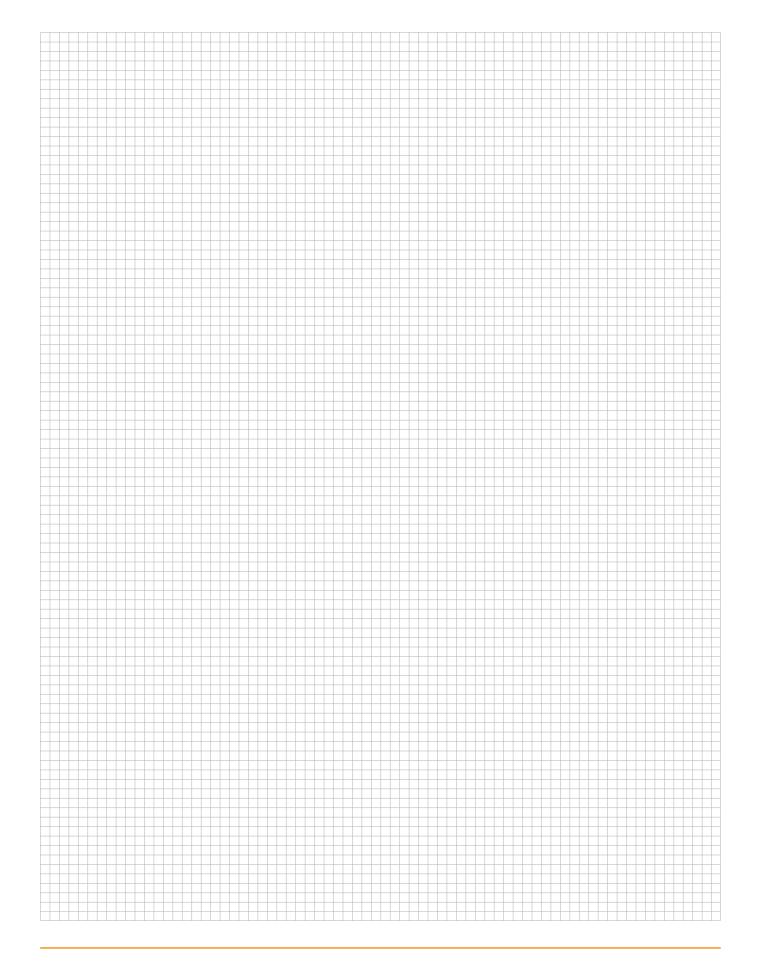
Technical Features

Brass



40 Position SMD Header – Vertical

| No. of Positions | Housing Material | Keying Options | Housing Color | Part Numbers | | | | |
|---------------------|---------------------|-------------------|------------------|--------------|---------------------|-----------|----------------------------------|---------------------------------|
| | | | | Header | Package Quantity | Packaging | Mating Recept for use in EMEA | acle Housing for use in Asia |
| 40 | PPS | Neutral | Black | 1747642-1 | _ | Tube | 1379671-5 | 1318389-1 |
| | | | | 1747642-2 | | | | |



AND EQUIPMENT

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Numerical Index

| Part Number | Page | Part Number | Page | Part Number | Page |
|-------------|-------|-------------|------------|-------------|----------------|
| 1-1318382-0 | 22 | 1-1565749-3 | 19 | 1376113-6 | 29 |
| 1-1318382-1 | 22 | 1-1612446-8 | 28 | 1376113-7 | 29 |
| 1-1318382-2 | 22 | 1123343-2 | 2 | 1376113-8 | 29 |
| 1-1318382-3 | 22 | 1276565-1 | 2 | 1376113-9 | 29 |
| 1-1318382-4 | 22 | 1318382-1 | 22 | 1376350-1 | 20 |
| 1-1318382-5 | 22 | 1318382-2 | 22 | 1376350-2 | 20 |
| 1-1318382-6 | 22 | 1318382-3 | 22 | 1376350-3 | 20 |
| 1-1318382-7 | 22 | 1318382-4 | 22 | 1376350-4 | 20 |
| 1-1318382-8 | 22 | 1318382-5 | 22 | 1376350-6 | 20 |
| 1-1318384-0 | 25 | 1318382-6 | 22 | 1376350-7 | 20 |
| 1-1318384-2 | 25 | 1318382-8 | 22 | 1376350-8 | 20 |
| 1-1318384-3 | 25 | 1318382-9 | 22 | 1376350-9 | 20 |
| 1-1318384-4 | 25 | 1318384-1 | 25 | 1376352-1 | 20, 30 |
| 1-1318384-5 | 25 | 1318384-2 | 25 | 1379604-1 | 16 |
| 1-1318384-6 | 25 | 1318384-4 | 25 | 1379604-2 | 16 |
| 1-1318384-7 | 25 | 1318384-5 | 25 | 1379658-1 | 4, 10, 15, 19 |
| 1-1318384-8 | 25 | 1318384-7 | 25 | 1379658-2 | 4, 10, 15, 19 |
| 1-1318384-9 | 25 | 1318386-1 | 22, 27, 31 | 1379658-3 | 4 |
| 1-1318745-0 | 24 | 1318389-1 | 25, 33 | 1379658-3 | 10 |
| 1-1318772-0 | 21 | 1318745-1 | 24 | 1379658-4 | 4, 10 |
| 1-1318772-2 | 21 | 1318745-2 | 24 | 1379659-1 | 5, 18 |
| 1-1318772-3 | 21 | 1318745-3 | 24 | 1379659-2 | 5, 18 |
| 1-1318772-4 | 21 | 1318745-4 | 24 | 1379659-3 | 5, 18 |
| 1-1318772-5 | 21 | 1318745-5 | 24 | 1379659-4 | 5 |
| 1-1318772-6 | 21 | 1318745-6 | 24 | 1379659-5 | 5, 11, 20, 30 |
| 1-1318772-7 | 21 | 1318745-7 | 24 | 1379662-1 | 6,12 |
| 1-1318772-8 | 21 | 1318745-8 | 24 | 1379662-2 | 6, 12 |
| 1-1318772-9 | 21 | 1318745-9 | 24 | 1379662-3 | 6, 12 |
| 1-1318853-0 | 23 | 1318747-1 | 24 | 1379662-4 | 6, 12 |
| 1-1318853-1 | 23 | 1318772-1 | 21 | 1379662-5 | 6, 12 |
| 1-1318853-2 | 23 | 1318772-2 | 21 | 1379662-5 | 21, 26 |
| 1-1318853-3 | 23 | 1318772-3 | 21 | 1379665-1 | 7,13 |
| 1-1318853-6 | 23 | 1318772-4 | 21 | 1379665-2 | 7, 13 |
| 1-1318853-7 | 23 | 1318772-5 | 21 | 1379665-3 | 7,13 |
| 1-1376111-1 | 28 | 1318772-6 | 21 | 1379665-4 | 7,13 |
| 1-1376111-3 | 28 | 1318772-7 | 21 | 1379665-5 | 7, 13 |
| 1-1376113-1 | 29 | 1318772-9 | 21 | 1379665-5 | 22, 27, 31 |
| 1-1376113-3 | 29 | 1318774-1 | 21, 26 | 1379668-1 | 8, 14, 16 |
| 1-1376350-0 | 20 | 1318853-1 | 23 | 1379668-2 | 8, 14, 16 |
| 1-1376350-1 | 20 | 1318853-2 | 23 | 1379668-3 | 8, 14 |
| 1-1376350-2 | 20 | 1318853-3 | 23 | 1379668-4 | 8, 14 |
| 1-1376350-3 | 20 | 1318853-4 | 23 | 1379668-5 | 8, 14, 23, 28, |
| 1-1376350-4 | 20 | 1318853-5 | 23 | | 29, 32 |
| 1-1376350-5 | 20 | 1318853-8 | 23 | 1379671-1 | 9, 17 |
| 1-1376350-6 | 20 | 1318853-9 | 23 | 1379671-2 | 9, 17 |
| 1-1376350-7 | 20 | 1318917-1 | 23, 28, | 1379671-3 | 9 |
| 1-1376350-9 | 20 | | 29, 32 | 1379671-4 | 9, 17 |
| 1-1379602-1 | 17 | 1376111-1 | 28 | 1379671-5 | 9, 25, 33 |
| 1-1379602-2 | 17 | 1376111-2 | 28 | 1379674-1 | 4, 10 |
| 1-1379602-4 | 17 | 1376111-5 | 28 | 1379674-2 | 4, 10 |
| 1-1379658-1 | 4, 10 | 1376111-6 | 28 | 1379674-3 | 4, 10 |
| 1-1379674-1 | 4, 10 | 1376111-7 | 28 | 1379674-4 | 4, 10 |
| 1-1379684-1 | 18 | 1376111-8 | 28 | 1379675-1 | 6, 12 |
| 1-1473898-1 | 26 | 1376111-9 | 28 | 1379675-2 | 6, 12 |
| 1-1565749-0 | 19 | 1376113-1 | 29 | 1379675-3 | 6, 12 |
| 1-1565749-1 | 19 | 1376113-2 | 29 | 1379675-4 | 6, 12 |
| 1-1565749-2 | 19 | 1376113-5 | 29 | 1379675-5 | 6, 12 |
| | | | | | |

Numerical Index

| Part Number | Page | I | |
|------------------------|---------|-------------|----|
| 1379678-1 | 7, 13 | 1939403-3 | 30 |
| 1379678-2 | 7, 13 | 1939403-4 | 30 |
| 1379678-3 | 7, 13 | 2-1318384-0 | 25 |
| 1379678-4 | 7, 13 | 2-1318384-3 | 25 |
| 1379678-5 | 7, 13 | 2-1318384-4 | 25 |
| 1379681-1 | 8, 14 | 2-1318384-6 | 25 |
| 1379681-2 | 8, 14 | 2-1318772-0 | 21 |
| 1379681-3 | 8, 14 | 2-1318772-1 | 21 |
| 1379681-4 | 8, 14 | 2-1318772-2 | 21 |
| 1379681-5 | 8, 14 | 2-1318772-3 | 21 |
| 1379684-1 | 18 | 2-1318772-4 | 21 |
| 1379684-2 | 18 | 2-1376350-0 | 20 |
| 1379684-3 | 18 | 2-1376350-1 | 20 |
| 1379684-4 | 18 | 2-1376350-2 | 20 |
| 1379684-5 | 18 | 2-1376350-3 | 20 |
| 1379684-6 | 18 | 2-1376350-5 | 20 |
| 1379684-7 | 18 | 2005097-1 | 2 |
| 1379700-1 | 15 | 2005098-1 | 3 |
| 1379700-2 | 15 | 6318382-3 | 22 |
| 1473672-1 | 19 | 6318382-5 | 22 |
| 1473672-2 | 19 | 6318382-6 | 22 |
| 1473898-1 | 26 | 6318384-5 | 25 |
| 1473898-2 | 26 | 6318772-3 | 21 |
| 1473898-3 | 26 | 6318772-4 | 21 |
| 1473898-4 | 26 | 6318772-5 | 21 |
| 1473898-5 | 26 | 6376350-3 | 20 |
| 1473898-6 | 26 | 6376350-4 | 20 |
| 1473898-7 | 26 | | |
| 1473898-8 | 26 | | |
| 1473898-9 | 26 | | |
| 1565476-1 | 27 | | |
| 1565476-2 | 27 | | |
| 1565476-4 | 27 | | |
| 1565749-1 | 19 | | |
| 1565749-3 | 19 | | |
| 1565749-4 | 19 | | |
| 1565749-5 | 19 | | |
| 1565749-6 | 19 | | |
| 1565749-7 | 19 | | |
| 1565749-8 | 19 5 | | |
| 1565804-2 1565804-2 | э 11 | | |
| 1565804-2 | 3 | | |
| 1674298-1 | 2 | | |
| 1674742-1 | 3 | | |
| 1717394-1 | 32 | | |
| 1717394-2 | 32 | | |
| 1717396-1 | 31 | | |
| 1717396-2 | 31 | | |
| 1717396-3 | 31 | | |
| 1747642-1 | 33 | | |
| 1747642-2 | 33 | | |
| 1801069-2 | 2 | | |
| 1801248-2 | 2 | | |
| 1939403-1 | 30 | | |
| 1939403-2 | 30 | | |
| | | | |
| | | | |

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