



TRI-STAR
ELECTRONICS INTERNATIONAL, INC.

C O N T A C T C A T A L O G





TRI-STAR
ELECTRONICS INTERNATIONAL, INC.

CUSTOM CONTACTS



PC Tail Contacts

Tri-Star has designed and manufactured thousands of Printed Circuit Tail contacts for all of the major connector families. Whether you choose from one of our existing styles or we build to your exacting specifications, we are your source for PC Tail contacts.



Thermocouple Contacts

At 36,000 feet on a 70,000 lb thrust jet engine or miles down an oil exploration hole, our contacts can take the punishment. What may be exotic contacts to others have become one of our standard product offerings which brings decades of Tri-Star experience to your application.



Coaxial

Coaxial contacts for Mil-C-38999, ARINC and many other connector families are available from Tri-Star. Our Coaxial contacts are used in critical communication systems, commercial & military satellites and telecom, as well as navigation and integrated avionic applications.



Crimp Contacts

A Mil-Spec crimp contact - we make it! From standard crimp contacts to reduced crimp barrels or custom designed for unique wire applications, Tri-Star is the leading manufacturer of crimp contacts for the Mil-Aero industry.



Solder Cup & Wire Wrap

We provide both. Whether you are prototyping or wiring up a test application, we can provide you with the solder cup or wire wrap contacts you need.



Specialized Custom Design

Special materials, designs or configurations - we can handle them all. Involve us with your design engineering team early in the process so we can help you to develop the most economical contact for your particular application.

Staying Ahead

Tri-Star Electronics International, Inc. is dedicated to providing the interconnect industry with the broadest selection of high reliability contacts and the lowest total cost solution for Mil-Aero contacts and specialty connectors. Our relentless pursuit of perfection through continuous improvement is how we are Staying Ahead of our competition and providing the best solutions for our customers.

www.tri-starelectronics.com

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Leading the Mil-Aero Contact Industry Through Innovation

At Tri-Star Electronics, we are dedicated to providing our customers with innovative, high quality, cost-effective interconnect products. By combining the latest computerized automation with precision manufacturing techniques, we are able to manufacture contacts more efficiently, more precisely, less expensively and with more uniformity and reliability than anyone else. Our state of the art automation is designed, built and operated here at Tri-Star with many processes not duplicated anywhere else in the industry.

This has resulted not only in superior quality products, but also in a sharp reduction in manufacturing costs, due to a reduction of direct labor. This combination of quality and economy has been instrumental in establishing us as the industry leader.

A History of Service

We are proud of our over 30 years of experience in providing the finest quality contacts. We will continue to innovate both our production methods and product offering in order to increase the value we offer our customers. We stand ready to offer our clients an even greater selection of superior products and services in the years to come.

315-2020-055xx



CONTACT SELECTION GUIDE - EXPLANATION OF TERMS

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|--|----------------------|---------|--------------|-----------|------------|------------|----------|--------|----------|---------|--|---|--|--|--|--|-----------------------|---------------------|----------------------|---|-----------------------|---|--------------------------|---|-----------|---|--------------------|---|
| | <p>BIN CODE COLOR BANDS:</p> <p>(Basic Identification Number) Reading from the wire barrel end of the contact - first (widest), second, and third color band – each digit of the BIN Code is designated on the contact by a color band in accordance with the following:</p> <table style="margin-left: 20px;"> <tr><td>0-Black</td><td>5-Green</td></tr> <tr><td>1-Brown</td><td>6-Blue</td></tr> <tr><td>2-Red</td><td>7-Violet</td></tr> <tr><td>3-Orange</td><td>8-Gray</td></tr> <tr><td>4-Yellow</td><td>9-White</td></tr> </table> | 0-Black | 5-Green | 1-Brown | 6-Blue | 2-Red | 7-Violet | 3-Orange | 8-Gray | 4-Yellow | 9-White | | <p>STYLE:</p> <p>Contact Pin - Pin Contact Socket - Skt</p> | <p>CONTACT SIZE:</p> <p>Mating end contact size</p> | <p>WIRE SIZE:</p> <p>Wire barrel size (AWG), type and part number of coaxial cable accommodated or W (Wire-Wrap®) termination</p> | <p>TYPE/CLASS:</p> <p>Type: A - Copper alloy contact B - Ferrous alloy contact C - Thermocouple contact D - Copper alloy shielded contact</p> <p>Class: Class A - Maximum operating temperature +125 degrees C Class B - Maximum operating temperature +200 degrees C</p> | <p>TYPE/USAGE:</p> <p>PWR - Power contact CX - Shielded (coaxial) contact</p> <table style="margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Thermocouple Material</th> <th style="text-align: left;">Tri-Star PIN Suffix</th> </tr> </thead> <tbody> <tr><td>KN (formerly Alumel)</td><td>A</td></tr> <tr><td>KP (formerly Chromel)</td><td>C</td></tr> <tr><td>JN (formerly Constantan)</td><td>K</td></tr> <tr><td>CU Copper</td><td>D</td></tr> <tr><td>JP (formerly Iron)</td><td>I</td></tr> </tbody> </table> | Thermocouple Material | Tri-Star PIN Suffix | KN (formerly Alumel) | A | KP (formerly Chromel) | C | JN (formerly Constantan) | K | CU Copper | D | JP (formerly Iron) | I |
| 0-Black | 5-Green | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-Brown | 6-Blue | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Red | 7-Violet | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3-Orange | 8-Gray | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4-Yellow | 9-White | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thermocouple Material | Tri-Star PIN Suffix | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KN (formerly Alumel) | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| KP (formerly Chromel) | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JN (formerly Constantan) | K | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CU Copper | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| JP (formerly Iron) | I | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Other materials are also available; please consult factory for additional information.

TRI-STAR CONTACT SELECTION GUIDE

CONTACTS PER MIL-C-39029

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-T-81714

| | | | | | | | |
|------------|-----|--------------|-----|----|-----|-----|-----|
| M39029/1 - | 100 | 315-1622-500 | Pin | 16 | 22 | A/B | PWR |
| M39029/1 - | 101 | 315-1620-501 | Pin | 16 | 20 | A/B | PWR |
| M39029/1 - | 102 | 315-1416-502 | Pin | 14 | 16 | A/B | PWR |
| M39029/1 - | 103 | 315-1212-503 | Pin | 12 | 12 | A/B | PWR |
| M39029/1 - | 507 | 315-2022-600 | Pin | 20 | 22D | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-81703 Series III, MIL-C-83723 Series I & III, and MIL-C-83733

| | | | | | | | |
|------------|-----|----------------|-----|----|----|-----|-----|
| M39029/4 - | 110 | 315-2020-088-L | Pin | 20 | 20 | A/B | PWR |
| M39029/4 - | 111 | 315-1616-089-L | Pin | 16 | 16 | A/B | PWR |
| M39029/4 - | 112 | 315-1620-123-L | Pin | 16 | 20 | A/B | PWR |
| M39029/4 - | 113 | 315-1212-090-L | Pin | 12 | 12 | A/B | PWR |
| M39029/4 - | 114 | 315-1216-124-L | Pin | 12 | 16 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-81703 Series III, MIL-C-83723 Series I & III, and MIL-C-83733

| | | | | | | | |
|------------|-----|----------------|-----|----|----|-----|-----|
| M39029/5 - | 115 | 316-2020-088-L | Skt | 20 | 20 | A/B | PWR |
| M39029/5 - | 116 | 316-1616-089-L | Skt | 16 | 16 | A/B | PWR |
| M39029/5 - | 117 | 316-1620-123-L | Skt | 16 | 20 | A/B | PWR |
| M39029/5 - | 118 | 316-1212-090-L | Skt | 12 | 12 | A/B | PWR |
| M39029/5 - | 119 | 316-1216-124-L | Skt | 12 | 16 | A/B | PWR |

CONNECTOR FAMILIES: MIL-T-81714, Series II, MIL-C-81703 Series III, MIL-C-83723 Series I & III, and MIL-C-83733

| | | | | | | | |
|------------|-----|---------------|-----|----|----|-----|-------|
| M39029/9 - | 132 | 615-2020-088D | Pin | 20 | 20 | C/B | TC-CU |
| M39029/9 - | 133 | 015-2020-088K | Pin | 20 | 20 | C/B | TC-CO |
| M39029/9 - | 134 | 015-2020-088A | Pin | 20 | 20 | C/B | TC-AL |
| M39029/9 - | 135 | 015-2020-088C | Pin | 20 | 20 | C/B | TC-CH |
| M39029/9 - | 136 | 415-2020-088I | Pin | 20 | 20 | C/B | TC-FE |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-81703 Series III, MIL-C-83723 Series I & III, and MIL-C-83733

| | | | | | | | |
|------------|-----|---------------|-----|----|----|-----|-------|
| M39029/9 - | 514 | 615-1616-0890 | Pin | 16 | 16 | C/B | TC-CU |
| M39029/9 - | 515 | 015-1616-089K | Pin | 16 | 16 | C/B | TC-CO |
| M39029/9 - | 516 | 015-1616-089A | Pin | 16 | 16 | C/B | TC-AL |
| M39029/9 - | 517 | 015-1616-089C | Pin | 16 | 16 | C/B | TC-CH |
| M39029/9 - | 518 | 415-1616-089I | Pin | 16 | 16 | C/B | TC-FE |

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-81703 Series III, MIL-C-83723 Series I & III, and MIL-C-83733

| | | | | | | | |
|-------------|-----|---------------|-----|----|----|-----|-------|
| M39029/10 - | 138 | 616-2020-0880 | Skt | 20 | 20 | C/B | TC-CU |
| M39029/10 - | 139 | 016-2020-088K | Skt | 20 | 20 | C/B | TC-CO |
| M39029/10 - | 140 | 016-2020-088A | Skt | 20 | 20 | C/B | TC-AL |
| M39029/10 - | 141 | 016-2020-088C | Skt | 20 | 20 | C/B | TC-CH |
| M39029/10 - | 142 | 416-2020-088I | Skt | 20 | 20 | C/B | TC-FE |
| M39029/10 - | 519 | 616-1616-0890 | Skt | 16 | 16 | C/B | TC-CU |
| M39029/10 - | 520 | 016-1616-089K | Skt | 16 | 16 | C/B | TC-CO |
| M39029/10 - | 521 | 016-1616-089A | Skt | 16 | 16 | C/B | TC-AL |
| M39029/10 - | 522 | 016-1616-089C | Skt | 16 | 16 | C/B | TC-CH |
| M39029/10 - | 523 | 416-1616-089I | Skt | 16 | 16 | C/B | TC-FE |

CONNECTOR FAMILY: MIL-C-81659 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/11 - | 144 | 315-2222-079-L | Pin | 22 | 22 | A/B | PWR |
| M39029/11 - | 145 | 315-2020-081-L | Pin | 20 | 20 | A/B | PWR |
| M39029/11 - | 146 | 315-1616-076-L | Pin | 16 | 16 | A/B | PWR |
| M39029/11 - | 147 | 315-1212-078-L | Pin | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-81659 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/12 - | 148 | 316-2222-079 | Skt | 22 | 22 | A/B | PWR |
| M39029/12 - | 149 | 316-2020-081-L | Skt | 20 | 20 | A/B | PWR |
| M39029/12 - | 150 | 316-1616-076-L | Skt | 16 | 16 | A/B | PWR |
| M39029/12 - | 151 | 316-1212-078-L | Skt | 12 | 12 | A/B | PWR |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-81511 Series IV

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/16 - | 166 | Consult Factory | Skt | 23 | 28 | A/B | PWR |
| M39029/16 - | 167 | 316-2322-567 | Skt | 23 | 22 | A/B | PWR |
| M39029/16 - | 168 | 316-2020-568 | Skt | 20 | 20 | A/B | PWR |
| M39029/16 - | 169 | 316-1616-569 | Skt | 16 | 16 | A/B | PWR |
| M39029/16 - | 170 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-81511 Series III

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/17 - | 171 | Consult Factory | Skt | 23 | 28 | A/B | PWR |
| M39029/17 - | 172 | 316-2322-572 | Skt | 23 | 22 | A/B | PWR |
| M39029/17 - | 173 | 316-2020-573 | Skt | 20 | 20 | A/B | PWR |
| M39029/17 - | 174 | 316-1616-574 | Skt | 16 | 16 | A/B | PWR |
| M39029/17 - | 175 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-81511 Series III & IV

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/18 - | 176 | Consult Factory | Pin | 23 | 28 | A/B | PWR |
| M39029/18 - | 177 | 315-2322-567 | Pin | 23 | 22 | A/B | PWR |
| M39029/18 - | 178 | 315-2020-568 | Pin | 20 | 20 | A/B | PWR |
| M39029/18 - | 179 | 315-1616-569 | Pin | 16 | 16 | A/B | PWR |
| M39029/18 - | 180 | Consult Factory | Pin | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: COMMON TERMINAL SYSTEM (CTS); MIL-C-81511 Series III & IV, CLASS L

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/22 - | 190 | Consult Factory | Skt | 22 | 28 | A/B | PWR |
| M39029/22 - | 191 | 315-2020-191 | Skt | 22 | 22 | A/B | PWR |
| M39029/22 - | 192 | 315-2020-192 | Skt | 20 | 20 | A/B | PWR |
| M39029/22 - | 193 | 315-1616-193 | Skt | 16 | 16 | A/B | PWR |
| M39029/22 - | 605 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-26482 Series I

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/25 - | 204 | Consult Factory | Pin | 12 | Various* | D/A | CX |
| M39029/25 - | 205 | Consult Factory | Pin | 12 | Various* | D/A | CX |
| M39029/25 - | 206 | Consult Factory | Pin | 12 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-26482 Series I

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/26 - | 207 | Consult Factory | Skt | 12 | Various* | D/A | CX |
| M39029/26 - | 208 | Consult Factory | Skt | 12 | Various* | D/A | CX |
| M39029/26 - | 209 | Consult Factory | Skt | 12 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-26482 Series I

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/27 - | 210 | 316-12CX-550 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 402 | 316-12CX-551 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 403 | 316-12CX-552 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 404 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 405 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 406 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 407 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 408 | Consult Factory | Skt | 12 | Various* | D/B | CX |

CONNECTOR FAMILY: MIL-C-38999 Series I, II, III, & IV

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/28 - | 211 | 316-12CX-550 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 409 | 316-12CX-551 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 410 | 316-12CX-552 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 411 | Consult Factory | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 412 | Consult Factory | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 413 | Consult Factory | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 414 | Consult Factory | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 415 | Consult Factory | Pin | 12 | Various* | D/B | CX |

*Consult Mil-Spec or Tri-Star Electronics for cable information

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-5015 Series MS3450 and MIL-C-83723 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/29 - | 212 | 315-1616-091-L | Pin | 16 | 16 | A/B | PWR |
| M39029/29 - | 213 | 915-1212-092 | Pin | 12 | 12 | A/B | PWR |
| M39029/29 - | 214 | 915-0808-093 | Pin | 8 | 8 | A/B | PWR |
| M39029/29 - | 215 | 915-0404-094 | Pin | 4 | 4 | NB | PWR |
| M39029/29 - | 216 | 915-0000-095 | Pin | 0 | 0 | NB | PWR |

CONNECTOR FAMILIES: MIL-C-5015 Series MS3450 and MIL-C-83723 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|-----|----|-----|-----|
| M39029/30 - | 217 | 316-1616-117-L | Skt | 16S | 16 | A/B | PWR |
| M39029/30 - | 218 | 316-1616-091-L | Skt | 16 | 16 | A/B | PWR |
| M39029/30 - | 219 | 916-1212-092 | Skt | 12 | 12 | A/B | PWR |
| M39029/30 - | 220 | 916-0808-093 | Skt | 8 | 8 | A/B | PWR |
| M39029/30 - | 221 | 916-0404-094 | Skt | 4 | 4 | A/B | PWR |
| M39029/30 - | 222 | 916-0000-095 | Skt | 0 | 0 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-26482 Series I, MIL-C-26500, MIL-C-26518 and MIL-C-81703 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-------|
| M39029/31 - | 223 | 317-2020-001-L | Pin | 20 | 20 | A/A | PWR |
| M39029/31 - | 224 | 415-2020-001I | Pin | 20 | 20 | C/A | TC-FE |
| M39029/31 - | 225 | 015-2020-001C | Pin | 20 | 20 | C/A | TC-CH |
| M39029/31 - | 226 | 015-2020-001A | Pin | 20 | 20 | C/A | TC-AL |
| M39029/31 - | 227 | 015-2020-001K | Pin | 20 | 20 | C/A | TC-CO |
| M39029/31 - | 228 | 317-1616-086-L | Pin | 16 | 16 | A/A | PWR |
| M39029/31 - | 229 | 315-1616-086-L | Pin | 16 | 16 | A/B | PWR |
| M39029/31 - | 230 | 415-1616-086I | Pin | 16 | 16 | C/A | TC-FE |
| M39029/31 - | 231 | 015-1616-086C | Pin | 16 | 16 | C/A | TC-CH |
| M39029/31 - | 232 | 015-1616-086A | Pin | 16 | 16 | C/A | TC-AL |
| M39029/31 - | 233 | 015-1616-086K | Pin | 16 | 16 | C/A | TC-CO |
| M39029/31 - | 234 | 317-1212-087-L | Pin | 12 | 12 | A/A | PWR |
| M39029/31 - | 235 | 315-1212-087-L | Pin | 12 | 12 | A/B | PWR |
| M39029/31 - | 236 | 415-1212-087I | Pin | 12 | 12 | C/A | TC-FE |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-26482 Series I, MIL-C-26500, MIL-C-26518 and MIL-C-81703 Series II (Continued)

| | | | | | | | |
|-------------|------|------------------|-----|----|----|-----|-------|
| M39029/31 - | 237 | 015-1212-087C | Pin | 12 | 12 | C/A | TC-CH |
| M39029/31 - | 238 | 015-1212-087A | Pin | 12 | 12 | C/A | TC-AL |
| M39029/31 - | 239 | 015-1212-087K | Pin | 12 | 12 | C/A | TC-CO |
| M39029/31 - | 240 | 317-2020-085-L | Skt | 20 | 20 | A/A | PWR |
| M39029/31 - | 241* | 315-2020-085-L | Skt | 20 | 20 | A/B | PWR |
| M39029/31 - | 448 | 317-2020-084-L | Skt | 20 | 20 | A/B | PWR |
| M39029/31 - | 627 | 315-2020-A3085-L | Skt | 20 | 20 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-26482 Series I, MIL-C-26500, MIL-C-26518 and MIL-C-81703 Series II

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-------|
| M39029/32 - | 242 | 317-2020-001-L | Skt | 20 | 20 | A/A | PWR |
| M39029/32 - | 243 | 415-2020-001I | Skt | 20 | 20 | C/A | TC-FE |
| M39029/32 - | 244 | 015-2020-001C | Skt | 20 | 20 | C/A | TC-CH |
| M39029/32 - | 245 | 015-2020-001A | Skt | 20 | 20 | C/A | TC-AL |
| M39029/32 - | 246 | 015-2020-001K | Skt | 20 | 20 | C/A | TC-CO |
| M39029/32 - | 247 | 317-1616-086-L | Skt | 16 | 16 | A/A | PWR |
| M39029/32 - | 248 | 315-1616-086-L | Skt | 16 | 16 | A/B | PWR |
| M39029/32 - | 249 | 415-1616-086I | Skt | 16 | 16 | C/A | TC-FE |
| M39029/32 - | 250 | 015-1616-086C | Skt | 16 | 16 | C/A | TC-CH |
| M39029/32 - | 251 | 015-1616-086A | Skt | 16 | 16 | C/A | TC-AL |
| M39029/32 - | 252 | 015-1616-086K | Skt | 16 | 16 | C/A | TC-CO |
| M39029/32 - | 253 | 317-1212-087-L | Skt | 12 | 12 | A/A | PWR |
| M39029/32 - | 254 | 315-1212-087-L | Skt | 12 | 12 | A/B | PWR |
| M39029/32 - | 255 | 415-1212-087I | Skt | 12 | 12 | C/A | TC-FE |
| M39029/32 - | 256 | 015-1212-087C | Skt | 12 | 12 | C/A | TC-CH |
| M39029/32 - | 257 | 015-1212-087A | Skt | 12 | 12 | C/A | TC-AL |
| M39029/32 - | 258 | 015-1212-087K | Skt | 12 | 12 | C/A | TC-CO |
| M39029/32 - | 259 | 317-2020-085-L | Skt | 20 | 20 | A/A | PWR |
| M39029/32 - | 260 | 315-2020-085-L | Skt | 20 | 20 | A/B | PWR |
| M39029/32 - | 449 | 317-2020-084-L | Skt | 20 | 20 | A/B | PWR |

*Superseded by M39029/31-627

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-81511 Series I

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/33 - | 262 | 316-2328-513 | Skt | 23 | 28 | A/B | PWR |
| M39029/33 - | 264 | 316-2322-514 | Skt | 23 | 22 | A/B | PWR |
| M39029/33 - | 266 | 316-2020-515 | Skt | 20 | 20 | A/B | PWR |
| M39029/33 - | 268 | Consult Factory | Skt | 16 | 16 | A/B | PWR |
| M39029/33 - | 270 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-28748/4 and MIL-C-28748/13

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/34 - | 271 | Consult Factory | Pin | 20 | 20 | A/A | PWR |
| M39029/34 - | 272 | 315-1620-519-L | Pin | 16 | 20 | A/A | PWR |
| M39029/34- | 273 | 315-1616-520-L | Pin | 16 | 16 | A/A | PWR |
| M39029/34- | 440 | Consult Factory | Pin | 22 | 22 | A/A | PWR |

CONNECTOR FAMILY: MIL-C-28748/4 and MIL-C 28748/14

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/35 - | 274 | Consult Factory | Skt | 20 | 20 | A/A | PWR |
| M39029/35 - | 275 | 316-1620-519-L | Skt | 16 | 20 | A/A | PWR |
| M39029/35 - | 276 | 316-1616-520-L | Skt | 16 | 16 | A/A | PWR |
| M39029/35- | 441 | Consult Factory | Skt | 22 | 22 | A/A | PWR |

CONNECTOR FAMILY: MIL-C-28748/9

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/36 - | 277 | 315-1620-521-L | Pin | 16 | 20 | A/A | PWR |
| M39029/36- | 278 | 315-1616-522-L | Pin | 16 | 16 | A/A | PWR |

CONNECTOR FAMILY: MIL-C-28748/10

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/37 - | 279 | 316-1620-521-L | Skt | 16 | 20 | A/A | PWR |
| M39029/37 - | 280 | 316-1616-522-L | Skt | 16 | 16 | A/A | PWR |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-5015 Series MS 3400

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/44 - | 287 | 315-1622-097-L | Pin | 16 | 22 | A/B | PWR |
| M39029/44 - | 288 | 315-1616-096-L | Pin | 16 | 16 | A/B | PWR |
| M39029/44 - | 289 | 915-1216-125 | Pin | 12 | 16 | A/B | PWR |
| M39029/44 - | 290 | 915-1212-098 | Pin | 12 | 12 | A/B | PWR |
| M39029/44 - | 291 | 915-0808-099 | Pin | 8 | 8 | A/B | PWR |
| M39029/44 - | 292 | 915-0404-100 | Pin | 4 | 4 | A/B | PWR |
| M39029/44 - | 293 | 915-0000-101 | Pin | 0 | 0 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-5015 Series MS 3400

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/45 - | 294 | 316-1622-097-L | Skt | 16 | 22 | A/B | PWR |
| M39029/45 - | 295 | 316-1616-096-L | Skt | 16 | 16 | A/B | PWR |
| M39029/45 - | 296 | 916-1216-125 | Skt | 12 | 16 | A/B | PWR |
| M39029/45 - | 297 | 915-1212-098 | Skt | 12 | 12 | A/B | PWR |
| M39029/45 - | 298 | 915-0808-099 | Skt | 8 | 8 | A/B | PWR |
| M39029/45 - | 299 | 915-0404-100 | Skt | 4 | 4 | A/B | PWR |
| M39029/45 - | 300 | 915-0000-101 | Skt | 0 | 0 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-81511 Series II

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/46 - | 302 | 316-2328-561 | Skt | 23 | 28 | A/B | PWR |
| M39029/46 - | 304 | 316-2322-562 | Skt | 23 | 22 | A/B | PWR |
| M39029/46 - | 306 | Consult Factory | Skt | 20 | 20 | A/B | PWR |
| M39029/46 - | 308 | Consult Factory | Skt | 16 | 16 | A/B | PWR |
| M39029/46 - | 310 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-81511 Series I & II

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/47 - | 312 | 316-2328-561 | Skt | 23 | 28 | A/B | PWR |
| M39029/47 - | 314 | 316-2322-562 | Skt | 23 | 22 | A/B | PWR |
| M39029/47 - | 316 | Consult Factory | Skt | 20 | 20 | A/B | PWR |
| M39029/47 - | 337 | Consult Factory | Skt | 16 | 16 | A/B | PWR |
| M39029/47 - | 339 | Consult Factory | Skt | 12 | 12 | A/B | PWR |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-22992 Class L

| | | | | | | | |
|-------------|-----|-----------------|-----|------|-----|-----|-----|
| M39029/48 - | 317 | Consult Factory | Pin | 6 | 6 | A/A | PWR |
| M39029/48 - | 318 | Consult Factory | Pin | 6N | 6 | A/A | PWR |
| M39029/48 - | 319 | Consult Factory | Pin | 6G | 6 | A/A | PWR |
| M39029/48 - | 320 | Consult Factory | Pin | 4 | 4 | A/A | PWR |
| M39029/48 - | 321 | Consult Factory | Pin | 4N | 4 | A/A | PWR |
| M39029/48 - | 322 | Consult Factory | Pin | 4G | 4 | A/A | PWR |
| M39029/48 - | 323 | Consult Factory | Pin | 1/0 | 1 | A/A | PWR |
| M39029/48 - | 324 | Consult Factory | Pin | 1/0N | 1 | A/A | PWR |
| M39029/48 - | 325 | Consult Factory | Pin | 2/0 | 2/0 | A/A | PWR |
| M39029/48 - | 326 | Consult Factory | Pin | 2/0N | 2/0 | A/A | PWR |
| M39029/48 - | 327 | Consult Factory | Pin | 4/0 | 4/0 | A/A | PWR |
| M39029/48 - | 328 | Consult Factory | Pin | 4/0N | 4/0 | A/A | PWR |

CONNECTOR FAMILY: MIL-C-22992 Class L

| | | | | | | | |
|-------------|-----|-----------------|-----|-----|-----|-----|-----|
| M39029/49 - | 329 | Consult Factory | Skt | 6 | 6 | A/A | PWR |
| M39029/49 - | 330 | Consult Factory | Skt | 6G | 6 | A/A | PWR |
| M39029/49 - | 331 | Consult Factory | Skt | 4 | 4 | A/A | PWR |
| M39029/49 - | 332 | Consult Factory | Skt | 4G | 4 | A/A | PWR |
| M39029/49 - | 333 | Consult Factory | Skt | 1/0 | 1 | A/A | PWR |
| M39029/49 - | 334 | Consult Factory | Skt | 2/0 | 2/0 | A/A | PWR |
| M39029/49 - | 335 | Consult Factory | Skt | 4/0 | 4/0 | A/A | PWR |

CONNECTOR FAMILY: MIL-C-83733

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/55 - | 340 | Consult Factory | Pin | 12 | Various* | D/B | CX |
|-------------|-----|-----------------|-----|----|----------|-----|----|

CONNECTOR FAMILY: MIL-C-83733

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/55 - | 341 | Consult Factory | Skt | 12 | Various* | D/B | CX |
|-------------|-----|-----------------|-----|----|----------|-----|----|

*Consult Mil-Spec or Tri-Star Electronics for cable information

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-26500 and MIL-C26518

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/55 - | 344 | Consult Factory | Skt | 12 | Various* | D/A | CX |
| M39029/55 - | 345 | 316-08CX-548 | Skt | 8 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV

| | | | | | | | |
|-------------|-----|----------------|-----|----|-----|-----|-----|
| M39029/56 - | 348 | 316-2222-136-L | Skt | 22 | 22D | A/B | PWR |
| M39029/56 - | 349 | 316-2222-137-L | Skt | 22 | 22M | A/B | PWR |
| M39029/56 - | 350 | 316-2222-138-L | Skt | 22 | 22 | A/B | PWR |
| M39029/56 - | 351 | 316-2020-139-L | Skt | 20 | 20 | A/B | PWR |
| M39029/56 - | 352 | 316-1616-140-L | Skt | 16 | 16 | A/B | PWR |
| M39029/56 - | 353 | 316-1212-141-L | Skt | 12 | 12 | A/B | PWR |
| M39029/56 - | 527 | 316-1010-231 | Skt | 10 | 10 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-55302/68, /71, /72, /75; MIL-C-38999 Series II and MIL-C-83733

| | | | | | | | |
|-------------|------------------|----------------|-----|----|-----|-----|-----|
| M39029/57 - | 354 | 316-2222-103-L | Skt | 22 | 22D | A/B | PWR |
| M39029/57 - | 355 ¹ | 316-2222-104-L | Skt | 22 | 22M | A/B | PWR |
| M39029/57 - | 356 ¹ | 316-2222-105 | Skt | 22 | 22 | A/B | PWR |
| M39029/57 - | 357 ² | 316-2020-106-L | Skt | 20 | 20 | A/B | PWR |
| M39029/57 - | 358 ¹ | 316-1616-107-L | Skt | 16 | 16 | A/B | PWR |
| M39029/57 - | 359 ¹ | 316-1212-108 | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-55302/69; MIL-C-38999 Series I, II, III & IV; MIL-C-83733

| | | | | | | | |
|-------------|------------------|----------------|-----|----|-----|-----|-----|
| M39029/58 - | 360 ¹ | 315-2222-103-L | Pin | 22 | 22D | A/B | PWR |
| M39029/58 - | 361 ¹ | 315-2222-104-L | Pin | 22 | 22M | A/B | PWR |
| M39029/58 - | 362 ¹ | 315-2222-105-L | Pin | 22 | 22 | A/B | PWR |
| M39029/58 - | 363 ² | 315-2020-106-L | Pin | 20 | 20 | A/B | PWR |
| M39029/58 - | 364 ¹ | 315-1616-107-L | Pin | 16 | 16 | A/B | PWR |
| M39029/58 - | 365 ¹ | 315-1212-108-L | Pin | 12 | 12 | A/B | PWR |
| M39029/58 - | 528 ¹ | 315-1010-231 | Pin | 10 | 10 | A/B | PWR |

*Consult Mil-Spec or Tri-Star Electronics for cable information

¹NOTE: Not for use with Mil-C-83733, Mil-C-24308 or Mil-C-55302 Connectors

²NOTE: Not for use with Mil-C-83733 or Mil-C-24308 Connectors

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

| CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV | | | | | | | |
|--|-----|--------------|-----|---|----------|-----|----|
| M39029/59 - | 366 | 316-08CX-547 | Skt | 8 | Various* | D/B | CX |

| CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV | | | | | | | |
|--|-----|--------------|-----|---|----------|-----|----|
| M39029/60 - | 367 | 315-08CX-547 | Pin | 8 | Various* | D/B | CX |

| CONNECTOR FAMILY: MIL-C-24308 | | | | | | | |
|-------------------------------|-----|----------------|-----|----|----|-----|-----|
| M39029/63 - | 368 | 318-2020-055-L | Skt | 20 | 20 | A/A | PWR |

| CONNECTOR FAMILY: MIL-C-24308 | | | | | | | |
|-------------------------------|-----|----------------|-----|----|----|-----|-----|
| M39029/64 - | 369 | 317-2020-055-L | Pin | 20 | 20 | A/A | PWR |

| CONNECTOR FAMILY: MIL-C-85028 (AS) | | | | | | | |
|------------------------------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/69 - | 384 | Consult Factory | Skt | 16 | 24 | A/A | PWR |
| M39029/69 - | 385 | 316-1620-602 | Skt | 16 | 20 | A/A | PWR |
| M39029/69 - | 386 | 316-1616-602 | Skt | 16 | 16 | A/A | PWR |

| CONNECTOR FAMILY: MIL-C-85028 (AS) | | | | | | | |
|------------------------------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/70 - | 387 | Consult Factory | Pin | 16 | 24 | A/A | PWR |
| M39029/70 - | 388 | 315-1620-602 | Pin | 16 | 20 | A/A | PWR |
| M39029/70 - | 389 | 315-1616-602 | Pin | 16 | 16 | A/A | PWR |

| CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series I, II, III & IV; MIL-C-55302/69 and MIL-C-83733 | | | | | | | |
|---|-----|--------------|-----|----|----|-----|-----|
| M39029/71 - | 390 | 315-22WW-912 | Pin | 22 | WW | A/B | PWR |
| M39029/71 - | 391 | 315-22WW-103 | Pin | 22 | WW | A/B | PWR |
| M39029/71 - | 392 | 315-22WW-127 | Pin | 22 | WW | A/B | PWR |

*Consult Mil-Spec or Tri-Star Electronics for cable information

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-24308 Series I, II, III & IV; MIL-C-55302/68, /71, /75; and MIL-C-83733

| | | | | | | | |
|-------------|-----|--------------|-----|----|----|-----|-----|
| M39029/72 - | 393 | 316-22WW-912 | Skt | 22 | WW | A/A | PWR |
| M39029/72 - | 394 | 316-22WW-103 | Skt | 22 | WW | A/A | PWR |
| M39029/72 - | 395 | 316-22WW-127 | Skt | 22 | WW | A/A | PWR |
| M39029/72 - | 524 | 316-22W1-157 | Skt | 22 | WW | A/A | PWR |
| M39029/72 - | 525 | 316-22WW-345 | Skt | 22 | WW | A/A | PWR |
| M39029/72 - | 526 | 316-22WW-038 | Skt | 22 | WW | A/A | PWR |

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-83723 Series I & III; MIL-C-83733 Series III and DOD-C-83527

| | | | | | | | |
|-------------|------------------|-----------------|-----|----|----------|-----|----|
| M39029/73 - | 396 | Consult Factory | Skt | 12 | Various* | D/A | CX |
| M39029/73 - | 397 | 316-12CX-610 | Skt | 12 | Various* | D/A | CX |
| M39029/73 - | 398 | 316-12CX-611 | Skt | 12 | Various* | D/A | CX |
| M39029/73 - | 555 ¹ | Consult Factory | Skt | 12 | Various* | D/A | CX |

CONNECTOR FAMILIES: MIL-C-26482 Series II, MIL-C-83723 Series I & III; MIL-C-83733 and MIL-C-81703 Series III

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/74 - | 399 | Consult Factory | Pin | 12 | Various* | D/A | CX |
| M39029/74 - | 400 | 315-12CX-610 | Pin | 12 | Various* | D/A | CX |
| M39029/74 - | 401 | 315-12CX-611 | Pin | 12 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-38999 Series II, III & IV

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----------|-----|----|
| M39029/75 - | 416 | 316-12CX-616 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 417 | 316-12CX-617 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 418 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 419 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 420 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 421 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 422 | Consult Factory | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 423 | Consult Factory | Skt | 12 | Various* | D/B | CX |

*Consult Mil-Spec or Tri-Star Electronics for cable information

¹NOTE: For use with DOD-C-83527 Connectors

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series I, II, III & IV

| | | | | | | | |
|-------------|-----|--------------|-----|----|----------|-----|----|
| M39029/76 - | 424 | 315-16CX-624 | Pin | 16 | Various* | D/B | CX |
| M39029/76 - | 425 | 315-16CX-625 | Pin | 16 | Various* | D/B | CX |
| M39029/76 - | 426 | 315-16CX-626 | Pin | 16 | Various* | D/B | CX |
| M39029/76 - | 427 | 315-16CX-627 | Pin | 16 | Various* | D/B | CX |

CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV

| | | | | | | | |
|-------------|-----|--------------|-----|----|----------|-----|----|
| M39029/77 - | 428 | 316-16CX-628 | Skt | 16 | Various* | D/B | CX |
| M39029/77 - | 429 | 316-16CX-629 | Skt | 16 | Various* | D/B | CX |
| M39029/77- | 430 | 316-16CX-630 | Skt | 16 | Various* | D/B | CX |
| M39029/77- | 431 | 316-16CX-631 | Skt | 16 | Various* | D/B | CX |

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series II

| | | | | | | | |
|-------------|-----|--------------|-----|----|----------|-----|----|
| M39029/78 - | 432 | 316-16CX-624 | Skt | 16 | Various* | D/B | CX |
| M39029/78 - | 433 | 316-16CX-625 | Skt | 16 | Various* | D/B | CX |
| M39029/78 - | 434 | 316-16CX-626 | Skt | 16 | Various* | D/B | CX |
| M39029/78 - | 435 | 316-16CX-627 | Skt | 16 | Various* | D/B | CX |

CONNECTOR FAMILY: MIL-C-28748/9

| | | | | | | | |
|-------------|-----|--------------|-----|----|----------|-----|----|
| M39029/79 - | 436 | 315-16CX-612 | Pin | 16 | Various* | D/A | CX |
| M39029/79 - | 437 | 315-16CX-613 | Pin | 16 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-28748/10

| | | | | | | | |
|-------------|-----|--------------|-----|----|----------|-----|----|
| M39029/80 - | 438 | 316-16CX-612 | Skt | 16 | Various* | D/A | CX |
| M39029/80 - | 439 | 316-16CX-613 | Skt | 16 | Various* | D/A | CX |

CONNECTOR FAMILY: MIL-C-28840

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/83 - | 450 | 315-2022-915-L | Pin | 20 | 22 | A/B | PWR |
| M39029/83 - | 451 | 315-2028-915-L | Pin | 20 | 28 | A/B | PWR |
| M39029/83 - | 508 | 315-2020-915-L | Pin | 20 | 20 | A/B | PWR |

*Consult Mil-Spec or Tri-Star Electronics for cable information

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: MIL-C-28840

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/84 - | 452 | 316-2022-915-L | Skt | 20 | 22 | A/B | PWR |
| M39029/84 - | 453 | 316-2028-915-L | Skt | 20 | 28 | A/B | PWR |
| M39029/84 - | 509 | 316-2020-915-L | Skt | 20 | 20 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-5015 Series MS3450 and MIL-C-83723 Series II

| | | | | | | | |
|-------------|-----|---------------|-----|----|----|-----|-------|
| M39029/85 - | 454 | 015-1616-091K | Pin | 16 | 16 | C/B | TC-CO |
| M39029/85- | 455 | 015-1616-091A | Pin | 16 | 16 | C/B | TC-AL |
| M39029/85 - | 456 | 015-1616-091C | Pin | 16 | 16 | C/B | TC-CH |
| M39029/85 - | 457 | 415-1616-091I | Pin | 16 | 16 | C/B | TC-FE |
| M39029/85 - | 458 | 015-1212-092K | Pin | 12 | 12 | C/B | TC-CO |
| M39029/85- | 459 | 015-1212-092A | Pin | 12 | 12 | C/B | TC-AL |
| M39029/85 - | 460 | 015-1212-092C | Pin | 12 | 12 | C/B | TC-CH |
| M39029/85 - | 461 | 415-1212-092I | Pin | 12 | 12 | C/B | TC-FE |

CONNECTOR FAMILIES: MIL-C-5015 Series MS3450 and MIL-C-83723 Series II

| | | | | | | | |
|-------------|-----|---------------|-----|-----|----|-----|-------|
| M39029/86 - | 510 | 016-1616-117K | Skt | 16S | 16 | C/B | TC-CO |
| M39029/86 - | 511 | 016-1616-117A | Skt | 16S | 16 | C/B | TC-AL |
| M39029/86 - | 512 | 016-1616-117C | Skt | 16S | 16 | C/B | TC-CH |
| M39029/86 - | 513 | 416-1616-117I | Skt | 16S | 16 | C/B | TC-FE |
| M39029/86 - | 462 | 016-1616-091K | Skt | 16 | 16 | C/B | TC-CO |
| M39029/86 - | 463 | 016-1616-091A | Skt | 16 | 16 | C/B | TC-AL |
| M39029/86 - | 464 | 016-1616-091C | Skt | 16 | 16 | C/B | TC-CH |
| M39029/86 - | 466 | 016-1212-092K | Skt | 12 | 12 | C/B | TC-CO |
| M39029/86 - | 467 | 016-1212-092A | Skt | 12 | 12 | C/B | TC-AL |
| M39029/86 - | 468 | 016-1212-092C | Skt | 12 | 12 | C/B | TC-CH |
| M39029/86 - | 469 | 416-1212-092I | Skt | 12 | 12 | C/B | TC-FE |

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series I, II, III & IV; and MIL-C-83733

| | | | | | | | |
|-------------|-----|---------------|-----|----|-----|-----|-------|
| M39029/87 - | 470 | 015-2222-103K | Pin | 22 | 22D | C/B | TC-CO |
| M39029/87 - | 471 | 015-2222-103A | Pin | 22 | 22D | C/B | TC-AL |

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series I, II, III & IV; and MIL-C-83733 (Continued)

| | | | | | | | |
|-------------|------------------|---------------|-----|----|-----|-----|-------|
| M39029/87 - | 472 | 015-2222-103C | Pin | 22 | 22D | C/B | TC-CH |
| M39029/87 - | 473 | 415-2222-103I | Pin | 22 | 22D | C/B | TC-FE |
| M39029/87 - | 474 ¹ | 015-2020-106K | Pin | 20 | 20 | C/B | TC-CO |
| M39029/87 - | 475 ¹ | 015-2020-106A | Pin | 20 | 20 | C/B | TC-AL |
| M39029/87 - | 476 ¹ | 015-2020-106C | Pin | 20 | 20 | C/B | TC-CH |
| M39029/87 - | 477 ¹ | 415-2020-106I | Pin | 20 | 20 | C/B | TC-FE |
| M39029/87 - | 478 ¹ | 015-1616-107K | Pin | 16 | 16 | C/B | TC-CO |
| M39029/87 - | 479 ¹ | 015-1616-107A | Pin | 16 | 16 | C/B | TC-AL |
| M39029/87 - | 480 ¹ | 015-1616-107C | Pin | 16 | 16 | C/B | TC-CH |
| M39029/87 - | 481 ¹ | 415-1616-107I | Pin | 16 | 16 | C/B | TC-FE |

CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV

| | | | | | | | |
|-------------|-----|---------------|-----|----|-----|-----|-------|
| M39029/88 - | 482 | 016-2222-136K | Skt | 22 | 22D | C/B | TC-CO |
| M39029/88 - | 483 | 016-2222-136A | Skt | 22 | 22D | C/B | TC-AL |
| M39029/88 - | 484 | 016-2222-136C | Skt | 22 | 22D | C/B | TC-CH |
| M39029/88 - | 485 | 416-2222-136I | Skt | 22 | 22D | C/B | TC-FE |
| M39029/88 - | 486 | 016-2020-139K | Skt | 20 | 20 | C/B | TC-CO |
| M39029/88 - | 487 | 016-2020-139A | Skt | 20 | 20 | C/B | TC-AL |
| M39029/88 - | 488 | 016-2020-139C | Skt | 20 | 20 | C/B | TC-CH |
| M39029/88 - | 489 | 416-2020-139I | Skt | 20 | 20 | C/B | TC-FE |
| M39029/88 - | 490 | 016-1616-140K | Skt | 16 | 16 | C/B | TC-CO |
| M39029/88 - | 491 | 016-1616-140A | Skt | 16 | 16 | C/B | TC-AL |
| M39029/88 - | 492 | 016-1616-140C | Skt | 16 | 16 | C/B | TC-CH |
| M39029/88 - | 493 | 416-1616-140I | Skt | 16 | 16 | C/B | TC-FE |

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series III; and MIL-C-83733

| | | | | | | | |
|-------------|-----|---------------|-----|----|-----|-----|-------|
| M39029/89 - | 494 | 016-2222-103K | Skt | 22 | 22D | C/B | TC-CO |
| M39029/89 - | 495 | 016-2222-103A | Skt | 22 | 22D | C/B | TC-AL |
| M39029/89 - | 496 | 016-2222-103C | Skt | 22 | 22D | C/B | TC-CH |
| M39029/89 - | 497 | 416-2222-103I | Skt | 22 | 22D | C/B | TC-FE |

¹NOTE: Not for use with Mil-C-83733 or Mil-C-24308 Connectors

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILIES: MIL-C-24308; MIL-C-38999 Series III; and MIL-C-83733 (Continued)

| | | | | | | | |
|-------------|------------------|---------------|-----|----|----|-----|-------|
| M39029/89 - | 498 ¹ | 016-2020-106K | Skt | 20 | 20 | C/B | TC-CO |
| M39029/89 - | 499 ¹ | 016-2020-106A | Skt | 20 | 20 | C/B | TC-AL |
| M39029/89 - | 500 ¹ | 016-2020-106C | Skt | 20 | 20 | C/B | TC-CH |
| M39029/89 - | 501 ¹ | 416-2020-106I | Skt | 20 | 20 | C/B | TC-FE |
| M39029/89 - | 502 ¹ | 016-1616-107K | Skt | 16 | 16 | C/B | TC-CO |
| M39029/89 - | 503 ¹ | 016-1616-107A | Skt | 16 | 16 | C/B | TC-AL |
| M39029/89 - | 504 ¹ | 016-1616-107C | Skt | 16 | 16 | C/B | TC-CH |
| M39029/89 - | 505 ¹ | 416-1616-107I | Skt | 16 | 16 | C/B | TC-FE |

CONNECTOR FAMILY: MIL-C-38999 Series III

| | | | | | | | |
|-------------|-----|--------------|-----|---|----------|-----|----|
| M39029/90 - | 529 | 315-08CX-232 | Pin | 8 | Various* | D/B | CX |
|-------------|-----|--------------|-----|---|----------|-----|----|

CONNECTOR FAMILY: MIL-C-38999 Series III

| | | | | | | | |
|-------------|-----|--------------|-----|---|----------|-----|----|
| M39029/91 - | 530 | 316-08CX-232 | Skt | 8 | Various* | D/B | CX |
|-------------|-----|--------------|-----|---|----------|-----|----|

CONNECTOR FAMILY: MIL-S-12883/40, 141 Relay Sockets

| | | | | | | | |
|-------------|-----|-----------------|-----|----|----|-----|-----|
| M39029/92 - | 531 | Consult Factory | Skt | 22 | 22 | A/B | PWR |
| M39029/92 - | 532 | Consult Factory | Skt | 20 | 20 | A/B | PWR |
| M39029/92 - | 533 | 316-1616-634 | Skt | 16 | 16 | A/B | PWR |
| M39029/92 - | 534 | 316-1620-634 | Skt | 16 | 20 | A/B | PWR |
| M39029/92 - | 535 | 316-1212-634 | Skt | 12 | 12 | A/B | PWR |
| M39029/92 - | 536 | Consult Factory | Skt | 12 | 16 | A/B | PWR |

CONNECTOR FAMILY: DOD-C-83527

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/93 - | 597 | 315-2222-306 | Pin | 22 | 22 | A/B | PWR |
| M39029/93 - | 598 | 315-2020-306 | Pin | 20 | 20 | A/B | PWR |
| M39029/93 - | 539 | 315-1616-306-L | Pin | 16 | 16 | A/B | PWR |
| M39029/93 - | 540 | 315-1212-306 | Pin | 12 | 12 | A/B | PWR |

¹NOTE: Not for use with Mil-C-83733 or Mil-C-24308 Connectors

*Consult Mil-Spec or Tri-Star Electronics for cable information

| SPEC/SHEET NUMBER | BIN CODE | TRI-STAR PART NUMBER | STYLE | CONTACT SIZE | WIRE SIZE | TYPE/CLASS | TYPE/USAGE |
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|
|-------------------|----------|----------------------|-------|--------------|-----------|------------|------------|

CONNECTOR FAMILY: DOD-C-83527

| | | | | | | | |
|-------------|-----|----------------|-----|----|----|-----|-----|
| M39029/94 - | 601 | 316-2222-306 | Skt | 22 | 22 | A/B | PWR |
| M39029/94 - | 602 | 316-2020-306 | Skt | 20 | 20 | A/B | PWR |
| M39029/94 - | 603 | 316-1616-306-L | Skt | 16 | 16 | A/B | PWR |
| M39029/94 - | 604 | 316-1212-306 | Skt | 12 | 12 | A/B | PWR |

CONNECTOR FAMILY: MIL-S-12883/44, /45 and /46 Relay Sockets

| | | | | | | | |
|--------------|-----|--------------|-----|----|----|-----|-----|
| M39029/101 - | 551 | 316-2228-194 | Skt | 22 | 28 | A/B | PWR |
| M39029/101 - | 552 | 316-2222-194 | Skt | 22 | 22 | A/B | PWR |
| M39029/101 - | 553 | 316-2020-194 | Skt | 20 | 20 | A/B | PWR |
| M39029/101 - | 554 | 316-1616-194 | Skt | 16 | 16 | A/B | PWR |

CONNECTOR FAMILY: MIL-C-38999 Series I, II, III & IV

| | | | | | | | |
|--------------|-----|--------------|-----|----|----------|-----|----|
| M39029/102 - | 558 | 315-12CX-950 | Pin | 12 | Various* | D/B | CX |
|--------------|-----|--------------|-----|----|----------|-----|----|

CONNECTOR FAMILY: MIL-C-38999 Series I, III & IV

| | | | | | | | |
|--------------|-----|--------------|-----|----|----------|-----|----|
| M39029/103 - | 559 | 316-12CX-950 | Skt | 12 | Various* | D/B | CX |
|--------------|-----|--------------|-----|----|----------|-----|----|

CONNECTOR FAMILIES: MIL-C-29600 Series A., and MIL-C-33999 Series I, III & IV

| | | | | | | | |
|--------------|-----|-----------------|-----|----|-----|-----|-----|
| M39029/106 - | 614 | Consult Factory | Skt | 22 | 22D | A/B | PWR |
| M39029/106 - | 615 | Consult Factory | Skt | 20 | 20 | A/B | PWR |
| M39029/106 - | 616 | Consult Factory | Skt | 16 | 16 | A/B | PWR |
| M39029/106 - | 617 | Consult Factory | Skt | 12 | 12 | A/B | PWR |
| M39029/106 - | 618 | Consult Factory | Skt | 10 | 10 | A/B | PWR |

CONNECTOR FAMILIES: MIL-C-29600 Series A., and MIL-C-33999 Series I, III & IV

| | | | | | | | |
|--------------|-----|-----------------|-----|----|-----|-----|-----|
| M39029/107 - | 620 | Consult Factory | Pin | 22 | 22D | A/B | PWR |
| M39029/107 - | 621 | Consult Factory | Pin | 20 | 20 | A/B | PWR |
| M39029/107 - | 622 | Consult Factory | Pin | 16 | 16 | A/B | PWR |
| M39029/107 - | 623 | Consult Factory | Pin | 12 | 12 | A/B | PWR |
| M39029/107 - | 624 | Consult Factory | Pin | 10 | 10 | A/B | PWR |

*Consult Mil-Spec or Tri-Star Electronics for cable information

SPECIAL ORDERING INSTRUCTIONS

In addition to all of the standard Tri-Star, Mil-C-39029 specified, and the many cross-referenced configurations listed in this catalog, Tri-Star manufactures custom crimp, printed circuit, thermocouple, coaxial (shielded), solder cup and wire-wrap contacts for most connectors. Should you be unable to find the contact required for your specific application listed in this catalog, Tri-Star can supply what you require through a custom order. We will need the information specified below in order to provide you with a quotation for your custom contact requirement.

CRIMP, COAXIAL, SOLDER CUP, OTHER CUSTOM: Contact the factory with your material and dimensional requirements and we will promptly provide you with a quotation.

THERMOCOUPLE CONTACTS: For thermocouple versions of standard power contacts, only the cross reference information and material specification are required.

PRINTED CIRCUIT CONTACTS: For PC type contacts, in addition to the power contact or connector cross reference, we will also need the following dimensional information: (1) overall contact length; (2) pin tail length; (3) pin tail diameter; and (4) for right angle PC Tail contacts, both lengths of the right angle portions.

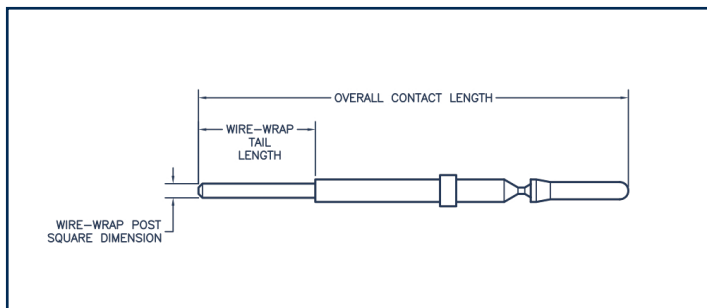


PC Right Angle Contact



PC Tail Contact

WIRE-WRAP CONTACTS: For wire-wrap terminations, in addition to the power contact or connector cross reference, we will also need the following dimensional information: (1) overall contact length; (2) length of the wire-wrap tail; and (3) the square dimension of the wire-wrap post.



Wire-Wrap Contact

CONTACT SELECTION GUIDE BY CONNECTOR MILITARY SPECIFICATION

HOW TO USE THIS CROSS REFERENCE SELECTION GUIDE

To find the appropriate contact for any Connector covered by the Military Specifications listed herein, locate the pertinent Mil-Spec and Series, Class or /# in the column at the left, and columns to the right will refer you to the proper M39029/X Section(s) for the correct power, thermocouple, wire-wrap or coaxial pin or socket contact for that particular Connector.

| CONNECTOR MIL-SPEC | SERIES CLASS OR /# | POWER | | THERMOCOUPLE | | WIRE-WRAP | | COAXIAL | |
|------------------------------------|-------------------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|------------------------------------|----------------------------------|
| | | Pin | Skt | Pin | Skt | Pin | Skt | Pin | Skt |
| Common Terminal System (CTS) | - | - | /22 | - | - | - | - | - | - |
| Mil-C-5015 | MS3400 | /44 | /45 | - | - | - | - | - | - |
| Mil-C-5015 | MS3450 | /29 | /30 | /85 | /86 | - | - | - | - |
| Mil-C-22992 | L | /48 | /49 | - | - | - | - | - | - |
| Mil-C-24308 | - | /58 /64 | /57 /63 | /87 | /89 | /71 | /72 | /65 /68 /76 | /66 /67 /78 |
| Mil-C-26482 | I | /31 | /32 | /31 | /32 | - | - | /23 /25 | /24 /26 |
| | II | /4 | /5 | /9 | /10 | - | - | /7 /74 | /8 /73 |
| Mil-C-26500 | - | /31 | /32 | /31 | /32 | - | - | /54 | /55 |
| Mil-C-26518 | - | /31 | /32 | /31 | /32 | - | - | /54 | /55 |
| Mil-C-28748 | /3 /4 /9 /10 /13 /14 | /34 - /36 - /34 - | - /35 - /37 - /35 | - - - - - - | - - - - - - | - - - - - - | - - - - - - | /40 /43 - /43 /79 - | - - /41 /42 /80 - |
| Mil-C-28840 | - | /83 | /84 | - | - | - | - | /104 | /105 |
| Mil-C-38999 | I | /58 | /56 | /87 | /88 | /71 | /72 | /28 /60 /76 /102 | /75 /59 /77 /103 |
| | II | /58 | /57 | /87 | /89 | /71 | /72 | /28 /76 /102 | /27 /78 - |
| | III | /58 | /56 | /87 | /88 | /71 | /72 | /28 /60 /76 /90 /102 | /75 /59 /77 /91 /103 |

| CONNECTOR MIL-SPEC | SERIES CLASS OR /# | POWER | | THERMOCOUPLE | | WIRE-WRAP | | COAXIAL | |
|-----------------------|---------------------------------|--------------------------|------------------------------------|-----------------------|-----------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|
| | | Pin | Skt | Pin | Skt | Pin | Skt | Pin | Skt |
| Mil-C-38999 | IV | /58 | /56 | /87 | /88 | /71 | /72 | /28 /60 /76 /102 | /75 /59 /77 /103 |
| Mil-C-55302 | /68 /69 /71 /72 /75 | - /58 - - - | /57 - /57 /57 /57 | - - - - - | - - - - - | - /71 - - - | /72 - /72 - /72 | - - - - - | - - - - - |
| Mil-C-81511 | I II III IV | /47 /47 /18 /17 | /33 /46 /17 /16 /22 | - - - - | - - - - | - - - - | - - - - | /6 /6 /19 /19 | /13 /14 /21 /21 |
| Mil-C-81659 | I II | /2 /11 | /3 /12 | - - | - - | - - | - - | - - | - - |
| Mil-C-81703 | II III | /31 /4 | /32 /5 | /31 /9 | /32 /10 | - - | - - | - /7 /74 | - /8 /73 |
| DOD-C-83527 | - | /93 | /94 | - | - | - | - | /96 /97 /99 | /95 /98 /100 |
| Mil-C-83723 | I II III | /4 /29 /4 | /5 /30 /5 | /9 /85 /9 | /10 /86 /10 | /71 - - | /72 - - | /7 /74 /7 /74 | /8 /73 - /8 /73 |
| Mil-C-83733 | - | /4 /58 | /5 /57 | /9 /87 | /10 /86 | - - | - - | /7 /50 /74 | /8 /51 /73 |
| Mil-C-85028 | AS | /70 | /69 | - | - | - | - | - | - |
| Mil-S-12883 | /40 /41 /44 /45 /46 | - - - - - | /92 /92 /101 /101 /101 | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - |
| Mil-T-81714 | - | /1 | - | - | - | - | - | - | - |



The Contact Specialists

Quality Materials

Tri-Star is involved in material design, research and specifications and stocks significant amounts of raw material to ensure consistency and availability of top performing materials.

Automation

Tri-Star's processes are fully automated including machining, cold heading, annealing, plating, hooding and striping. Our state of the art automation is designed, built and operated internally - which enables us to stay ahead of our competition.

Product Offering

Tri-Star maintains close to 400 QPL's and our extensive experience making virtually every type of contact enables us to support all of your contact requirements – standard or custom configurations and large or small quantities.

Continuous Improvement

Tri-Star's over thirty years of experience and continued investment in contact design and manufacturing enables us to offer our customers the lowest total cost and best value for all of your contact requirements.





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