# CONTACTS

CARLISLE
INTERCONNECT TECHNOLOGIES

# Contact Offerings

## CRIMP CONTACTS

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

## PC TAIL CONTACTS

We have 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 exact specifications, we are the #1 source for PC Tail contacts.

## COAXIAL, TWINAX & TRIAX

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

## 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 experience to your application.

## 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.

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## Leading the Industry Through Innovation

With the addition of Tri-Star Electronics International, Carlisle Interconnect Technologies remains 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 CarlisleIT/Tri-Star with many processes not duplicated anywhere else in the industry.

This has resulted in superior quality products and 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.

We are proud of our over 30 years of experience in providing the finest quality contacts. We are committed to innovating our production methods and product offerings 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.

# Part Numbering System

**XXX-XXXX-XXX-XX**

### Modifier

| | |
|---|---|
| A | Type KN Thermocouple |
| C | Type KP Thermocouple |
| K | Type JN Thermocouple |
| I | Type JP Thermocouple |
| D | Type CU Thermocouple |
| -L | Localized Finish |
| T | Solder Dipped PC Tail |

### Contact Family Code

See product specification

### Contact Wire Barrel Size or Termination Type

| | |
|---|---|
| XX | Wire Barrel Size: (12, 16, 20, ect.) |
| W | Wire Wrap: (WW, W1, W2, ect.) |
| 00 | PC Tail (01, 02, 0A, etc.) |
| CX | Coaxial Contact (C1, C2, etc.) |
| TX | Twinax, Triax |

### Contact Engagement Size

00 thru 22

### Style

Odd Number = Pin (Male) Contact

Even Number = Socket (Female) Contact

### Logo Code

| | |
|---|---|
| 1 | Stamped with TSEI Logo |
| 2 | No Logo |

### Contact Finish

| | |
|---|---|
| 1 | .000020 min gold plate over nickel |
| 2 | .000030 min gold plate over nickel |
| 3 | .000050 min gold plate over nickel |

Consult factory for other finishes



# Contact Selection Guide – Explanation of Terms

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type/ Class | Application |
|---|---|---|---|---|---|---|---|

### BIN Code Color Bands
(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:

| | | | |
|---|---|---|---|
| 0 | Black | 5 | Green |
| 1 | Brown | 6 | Blue |
| 2 | Red | 7 | Violet |
| 3 | Orange | 8 | Gray |
| 4 | Yellow | 9 | White |

### Style

| | |
|---|---|
| PIN | Pin (Male) Contact |
| SKT | Socket (Female) Contact |

### Contact Size

Contact engagement size

### Wire Barrel Size or Termination Type

Crimp Barrel Wire Accommodation, Termination Type (PC Tail or Wire Wrap) or Coax RG Cable Accommodation

### Type/Class

**Type:**

| | |
|---|---|
| A | Copper alloy contact |
| B | Ferrous alloy contact |
| C | Thermocouple contact |
| D | Copper alloy shielded contact |

**Class:**

| | |
|---|---|
| Class A | Maximum operating temperature +125°C |
| Class B | Maximum operating temperature +200°C |

### Application

| | |
|---|---|
| PWR | Power contact |
| CX | Shielded (coaxial) contact |

| 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 AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Family: AS81714** | | | | | | | |
| M39029/1 - | 100 | 315-1622-500 | Pin | 16 | 22 | A/B | PWR |
| M39029/1 - | 101 | 315-1620-501-L | 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 |
| **MIL-DTL-26482 Series 2, AS81703 Series 3, MIL-DTL-83723 Series I & III, & MIL-DTL-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 |
| **MIL-DTL-26482 Series 2, AS81703 Series 3, MIL-DTL-83723 Series I & III, & MIL-DTL-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 |
| **MIL-DTL-26482 Series 2, AS81703 Series 3, MIL-DTL-83723 Series I & III, & MIL-DTL-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-JN |
| M39029/9 - | 134 | 015-2020-088A | Pin | 20 | 20 | C/B | TC-KN |
| M39029/9 - | 135 | 015-2020-088C | Pin | 20 | 20 | C/B | TC-KP |
| M39029/9 - | 136 | 415-2020-088I | Pin | 20 | 20 | C/B | TC-JP |
| M39029/9 - | 514 | 615-1616-089D | Pin | 16 | 16 | C/B | TC-CU |
| M39029/9 - | 515 | 015-1616-089K | Pin | 16 | 16 | C/B | TC-JN |
| M39029/9 - | 516 | 015-1616-089A | Pin | 16 | 16 | C/B | TC-KN |
| M39029/9 - | 517 | 015-1616-089C | Pin | 16 | 16 | C/B | TC-KP |
| M39029/9 - | 518 | 415-1616-089I | Pin | 16 | 16 | C/B | TC-JP |

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **MIL-DTL-26482 Series 2, AS81703 Series 3, MIL-DTL-83723 Series I & III, & MIL-DTL-83733** | | | | | | | |
| M39029/10 - | 138 | 616-2020-088D | Skt | 20 | 20 | C/B | TC-CU |
| M39029/10 - | 139 | 016-2020-088K | Skt | 20 | 20 | C/B | TC-JN |
| M39029/10 - | 140 | 016-2020-088A | Skt | 20 | 20 | C/B | TC-KN |
| M39029/10 - | 141 | 016-2020-088C | Skt | 20 | 20 | C/B | TC-KP |
| M39029/10 - | 142 | 416-2020-088I | Skt | 20 | 20 | C/B | TC-JP |
| M39029/10 - | 519 | 616-1616-089D | Skt | 16 | 16 | C/B | TC-CU |
| M39029/10 - | 520 | 016-1616-089K | Skt | 16 | 16 | C/B | TC-JN |
| M39029/10 - | 521 | 016-1616-089A | Skt | 16 | 16 | C/B | TC-KN |
| M39029/10 - | 522 | 016-1616-089C | Skt | 16 | 16 | C/B | TC-KP |
| M39029/10 - | 523 | 416-1616-089I | Skt | 16 | 16 | C/B | TC-JP |
| **Connector Family: AS81659 Series 2** | | | | | | | |
| 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: AS81659 Series 2** | | | | | | | |
| M39029/12 - | 148 | 316-2222-079-L | 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 |
| **Connector Family: MIL-C-81511 Series 4** | | | | | | | |
| 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 3** | | | | | | | |
| 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 |

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-C-81511 Series 3 & 4** | | | | | | | |
| 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 Families: AS81714 Series II & MIL-C-81511 Series 3 & 4, Class L** | | | | | | | |
| M39029/22 - | 190 | Consult Factory | Skt | 22 | 28 | A/B | PWR |
| M39029/22 - | 191 | 316-2222-191 | Skt | 22 | 22 | A/B | PWR |
| M39029/22 - | 192 | 316-2020-192-L | Skt | 20 | 20 | A/B | PWR |
| M39029/22 - | 193 | 316-1616-193 | Skt | 16 | 16 | A/B | PWR |
| M39029/22 - | 605 | Consult Factory | Skt | 12 | 12 | A/B | PWR |
| **Connector Family: MIL-DTL-26482 Series 1** | | | | | | | |
| 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-DTL-26482 Series 1** | | | | | | | |
| 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-DTL-38999 Series II** | | | | | | | |
| 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 | 316-12CX-553 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 405 | 316-12CX-554 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 406 | 316-12CX-555 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 407 | 316-12CX-556 | Skt | 12 | Various* | D/B | CX |
| M39029/27 - | 408 | 316-12CX-557 | Skt | 12 | Various* | D/B | CX |
| **Connector Families: MIL-DTL-38999 Series I, II, III & IV** | | | | | | | |
| M39029/28 - | 211 | 315-12CX-550 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 409 | 315-12CX-551 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 410 | 315-12CX-552 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 411 | 315-12CX-553 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 412 | 315-12CX-554 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 413 | 315-12CX-555 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 414 | 315-12CX-556 | Pin | 12 | Various* | D/B | CX |
| M39029/28 - | 415 | 315-12CX-557 | Pin | 12 | Various* | D/B | CX |

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information



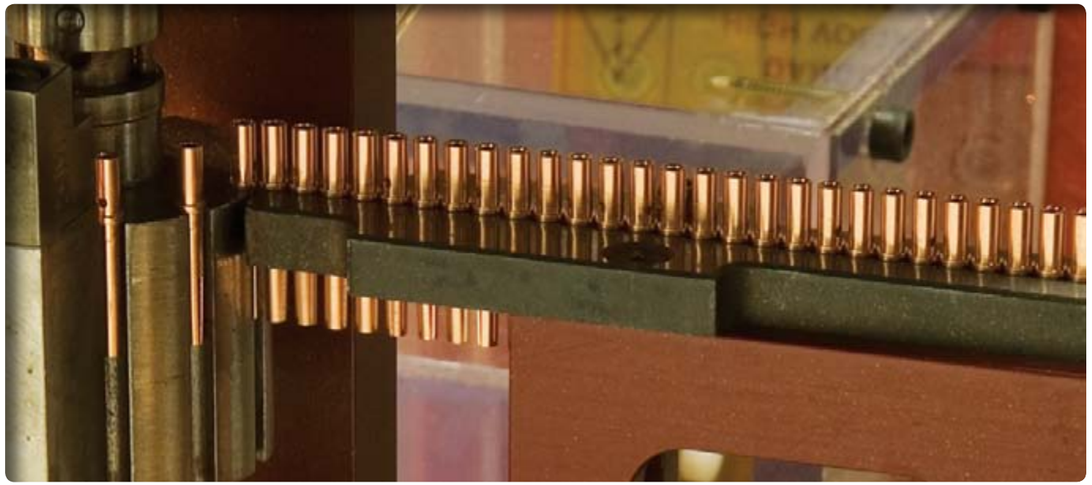
| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: AS50151 Series AS34501 & MIL-DTL-83723 Series 2** | | | | | | | |
| M39029/29 - | 212 | 315-1616-091-L | Pin | 16 | 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 | A/B | PWR |
| M39029/29 - | 216 | 915-0000-095 | Pin | 0 | 0 | A/B | PWR |
| **Connector Families: AS50151 Series AS34501 & MIL-DTL-83723 Series 2** | | | | | | | |
| 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 |

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-26482 Series 1, MIL-DTL-26500 & MIL-DTL-26518** | | | | | | | |
| 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-JP |
| M39029/31 - | 225 | 015-2020-001C | Pin | 20 | 20 | C/A | TC-KP |
| M39029/31 - | 226 | 015-2020-001A | Pin | 20 | 20 | C/A | TC-KN |
| M39029/31 - | 227 | 015-2020-001K | Pin | 20 | 20 | C/A | TC-JN |
| 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-JP |
| M39029/31 - | 231 | 015-1616-086C | Pin | 16 | 16 | C/A | TC-KP |
| M39029/31 - | 232 | 015-1616-086A | Pin | 16 | 16 | C/A | TC-KN |
| M39029/31 - | 233 | 015-1616-086K | Pin | 16 | 16 | C/A | TC-JN |
| 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-JP |
| M39029/31 - | 237 | 015-1212-087C | Pin | 12 | 12 | C/A | TC-KP |
| M39029/31 - | 238 | 015-1212-087A | Pin | 12 | 12 | C/A | TC-KN |
| M39029/31 - | 239 | 015-1212-087K | Pin | 12 | 12 | C/A | TC-JN |
| M39029/31 - | 240 | 317-2020-085-L | Pin | 20 | 20 | A/A | PWR |
| M39029/31 - | 241* | 315-2020-085-L | Pin | 20 | 20 | A/B | PWR |
| M39029/31 - | 448 | 317-2020-084-L | Pin | 20 | 20 | A/B | PWR |
| M39029/31 - | 627 | 315-2020-A3085-L | Pin | 20 | 20 | A/B | PWR |

*Superseded by M39029/31-627



| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-26482 Series 1, MIL-DTL-26500 & MIL-DTL-26518** | | | | | | | |
| M39029/32 - | 242 | 318-2020-001-L | Skt | 20 | 20 | A/A | PWR |
| M39029/32 - | 243 | 416-2020-001I | Skt | 20 | 20 | C/A | TC-JP |
| M39029/32 - | 244 | 016-2020-001C | Skt | 20 | 20 | C/A | TC-KP |
| M39029/32 - | 245 | 016-2020-001A | Skt | 20 | 20 | C/A | TC-KN |
| M39029/32 - | 246 | 016-2020-001K | Skt | 20 | 20 | C/A | TC-JN |
| M39029/32 - | 247 | 318-1616-086-L | Skt | 16 | 16 | A/A | PWR |
| M39029/32 - | 248 | 316-1616-086-L | Skt | 16 | 16 | A/B | PWR |
| M39029/32 - | 249 | 416-1616-086I | Skt | 16 | 16 | C/A | TC-JP |
| M39029/32 - | 250 | 016-1616-086C | Skt | 16 | 16 | C/A | TC-KP |
| M39029/32 - | 251 | 016-1616-086A | Skt | 16 | 16 | C/A | TC-KN |
| M39029/32 - | 252 | 016-1616-086K | Skt | 16 | 16 | C/A | TC-JN |
| M39029/32 - | 253 | 318-1212-087-L | Skt | 12 | 12 | A/A | PWR |
| M39029/32 - | 254 | 316-1212-087-L | Skt | 12 | 12 | A/B | PWR |
| M39029/32 - | 255 | 416-1212-087I | Skt | 12 | 12 | C/A | TC-JP |
| M39029/32 - | 256 | 016-1212-087C | Skt | 12 | 12 | C/A | TC-KP |
| M39029/32 - | 257 | 016-1212-087A | Skt | 12 | 12 | C/A | TC-KN |
| M39029/32 - | 258 | 016-1212-087K | Skt | 12 | 12 | C/A | TC-JN |
| M39029/32 - | 259 | 318-2020-085-L | Skt | 20 | 20 | A/A | PWR |
| M39029/32 - | 260 | 316-2020-085-L | Skt | 20 | 20 | A/B | PWR |
| M39029/32 - | 449 | 318-2020-084-L | Skt | 20 | 20 | A/B | PWR |
| **Connector Family: MIL-C-81511 Series 1** | | | | | | | |
| M39029/33 - | 262 | 316-2328-513 | Skt | 23 | 28 | A/B | PWR |
| M39029/33 - | 264 | 316-2322-514-L | Skt | 23 | 22 | A/B | PWR |
| M39029/33 - | 266 | 316-2020-515-L | 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 Families: MIL-DTL-28748/3 & MIL-DTL-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 Families: MIL-DTL-28748/3 & MIL-DTL 28748/13** | | | | | | | |
| 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 |

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Family: MIL-DTL-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-DTL-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 |
| **Connector Family: AS50151 Series AS34001** | | | | | | | |
| 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: AS50151 Series AS34001** | | | | | | | |
| 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 | 916-1212-098 | Skt | 12 | 12 | A/B | PWR |
| M39029/45 - | 298 | 916-0808-099 | Skt | 8 | 8 | A/B | PWR |
| M39029/45 - | 299 | 916-0404-100 | Skt | 4 | 4 | A/B | PWR |
| M39029/45 - | 300 | 916-0000-101 | Skt | 0 | 0 | A/B | PWR |
| **Connector Family: MIL-C-81511 Series 2** | | | | | | | |
| 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 Families: MIL-C-81511 Series 1 & 2** | | | | | | | |
| M39029/47 - | 312 | 315-2328-561 | Pin | 23 | 28 | A/B | PWR |
| M39029/47 - | 314 | 315-2322-562 | Pin | 23 | 22 | A/B | PWR |
| M39029/47 - | 316 | Consult Factory | Pin | 20 | 20 | A/B | PWR |
| M39029/47 - | 337 | Consult Factory | Pin | 16 | 16 | A/B | PWR |
| M39029/47 - | 339 | Consult Factory | Pin | 12 | 12 | A/B | PWR |

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Family: MIL-DTL-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-DTL-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 Families: MIL-DTL-26500 & MIL-DTL-26518** | | | | | | | |
| M39029/55 - | 344 | Consult Factory | Skt | 12 | Various* | D/A | CX |
| M39029/55 - | 345 | 316-08CX-548 | Skt | 8 | Various* | D/A | CX |
| **Connector Families: MIL-DTL-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-L | Skt | 10 | 10 | A/B | PWR |

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-24308; MIL-DTL-55302/68, /71, /72, /75, MIL-DTL-38999 Series II & MIL-DTL-83733** | | | | | | | |
| M39029/57 - | 354 | 316-2222-103-L | Skt | 22 | 22D | A/B | PWR |
| M39029/57 - | 355[1] | 316-2222-104 | Skt | 22 | 22M | A/B | PWR |
| M39029/57 - | 356[1] | 316-2222-105-L | 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-L | Skt | 12 | 12 | A/B | PWR |
| **Connector Families: MIL-DTL-24308, MIL-DTL-55302/69; MIL-DTL-38999 Series I, II, III & IV & MIL-DTL-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 |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
| M39029/59 - | 366 | 316-08CX-547 | Skt | 8 | Various* | D/B | CX |
| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
| M39029/60 - | 367 | 315-08CX-547 | Pin | 8 | Various* | D/B | CX |
| **Connector Family: MIL-DTL-24308** | | | | | | | |
| M39029/63 - | 368 | 318-2020-055-L | Skt | 20 | 20 | A/A | PWR |
| **Connector Family: MIL-DTL-24308** | | | | | | | |
| M39029/64 - | 369 | 317-2020-055-L | Pin | 20 | 20 | A/A | PWR |
| **Connector Family: AS85028** | | | | | | | |
| 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: AS85028** | | | | | | | |
| 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 |

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information



| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-24308; MIL-DTL-55302/69, MIL-DTL-38999 Series I, II, III & IV, & MIL-DTL-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 |
| **Connector Families: MIL-DTL-24308, MIL-DTL-55302/68, /71, /75, & MIL-DTL-38999 Series I, II, III & IV** | | | | | | | |
| 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-DTL-26482 Series 2, MIL-DTL-83723 Series III; MIL-DTL-83733, & MIL-DTL-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-DTL-26482 Series 2, MIL-DTL-83723 Series III, MIL-DTL-83733 & MIL-DTL-83527** | | | | | | | |
| 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 Families: MIL-DTL-38999 Series I, 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 | 316-12CX-618 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 419 | 316-12CX-619 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 420 | 316-12CX-620 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 421 | 316-12CX-621 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 422 | 316-12CX-622 | Skt | 12 | Various* | D/B | CX |
| M39029/75 - | 423 | 316-12CX-623 | Skt | 12 | Various* | D/B | CX |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-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 |

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-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-DTL-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-DTL-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-DTL-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-DTL-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 |
| **Connector Family: MIL-DTL-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: AS50151 Series AS34501 & MIL-DTL-83723 Series II** | | | | | | | |
| M39029/85 - | 454 | 015-1616-091K | Pin | 16 | 16 | C/B | TC-JN |
| M39029/85 - | 455 | 015-1616-091A | Pin | 16 | 16 | C/B | TC-KN |
| M39029/85 - | 456 | 015-1616-091C | Pin | 16 | 16 | C/B | TC-KP |
| M39029/85 - | 457 | 415-1616-091I | Pin | 16 | 16 | C/B | TC-JP |
| M39029/85 - | 458 | 015-1212-092K | Pin | 12 | 12 | C/B | TC-JN |
| M39029/85 - | 459 | 015-1212-092A | Pin | 12 | 12 | C/B | TC-KN |
| M39029/85 - | 460 | 015-1212-092C | Pin | 12 | 12 | C/B | TC-KP |
| M39029/85 - | 461 | 415-1212-092I | Pin | 12 | 12 | C/B | TC-JP |

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information



| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: AS50151 Series AS34501 & MIL-DTL-83723 Series II** | | | | | | | |
| M39029/86 - | 462 | 016-1616-091K | Skt | 16 | 16 | C/B | TC-JN |
| M39029/86 - | 463 | 016-1616-091A | Skt | 16 | 16 | C/B | TC-KN |
| M39029/86 - | 464 | 016-1616-091C | Skt | 16 | 16 | C/B | TC-KP |
| M39029/86 - | 465 | 416-1616-091I | Skt | 16 | 16 | C/B | TC-JP |
| M39029/86 - | 466 | 016-1212-092K | Skt | 12 | 12 | C/B | TC-JN |
| M39029/86 - | 467 | 016-1212-092A | Skt | 12 | 12 | C/B | TC-KN |
| M39029/86 - | 468 | 016-1212-092C | Skt | 12 | 12 | C/B | TC-KP |
| M39029/86 - | 469 | 416-1212-092I | Skt | 12 | 12 | C/B | TC-JP |
| M39029/86 - | 510 | 016-1616-117K | Skt | 16S | 16 | C/B | TC-JN |
| M39029/86 - | 511 | 016-1616-117A | Skt | 16S | 16 | C/B | TC-KN |
| M39029/86 - | 512 | 016-1616-117C | Skt | 16S | 16 | C/B | TC-KP |
| M39029/86 - | 513 | 416-1616-117I | Skt | 16S | 16 | C/B | TC-JP |
| **Connector Families: MIL-DTL-24308, MIL-DTL-38999 Series I, II, III & IV, & MIL-DTL-83733** | | | | | | | |
| M39029/87 - | 470 | 015-2222-103K | Pin | 22 | 22D | C/B | TC-JN |
| M39029/87 - | 471 | 015-2222-103A | Pin | 22 | 22D | C/B | TC-KN |
| M39029/87 - | 472 | 015-2222-103C | Pin | 22 | 22D | C/B | TC-KP |
| M39029/87 - | 473 | 415-2222-103I | Pin | 22 | 22D | C/B | TC-JP |
| M39029/87 - | 474[1] | 015-2020-106K | Pin | 20 | 20 | C/B | TC-JN |
| M39029/87 - | 475[1] | 015-2020-106A | Pin | 20 | 20 | C/B | TC-KN |
| M39029/87 - | 476[1] | 015-2020-106C | Pin | 20 | 20 | C/B | TC-KP |
| M39029/87 - | 477[1] | 415-2020-106I | Pin | 20 | 20 | C/B | TC-JP |
| M39029/87 - | 478[1] | 015-1616-107K | Pin | 16 | 16 | C/B | TC-JN |
| M39029/87 - | 479[1] | 015-1616-107A | Pin | 16 | 16 | C/B | TC-KN |
| M39029/87 - | 480[1] | 015-1616-107C | Pin | 16 | 16 | C/B | TC-KP |
| M39029/87 - | 481[1] | 415-1616-107I | Pin | 16 | 16 | C/B | TC-JP |

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

| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
|---|---|---|---|---|---|---|---|
| M39029/88 - | 482 | 016-2222-136K | Skt | 22 | 22D | C/B | TC-JN |
| M39029/88 - | 483 | 016-2222-136A | Skt | 22 | 22D | C/B | TC-KN |
| M39029/88 - | 484 | 016-2222-136C | Skt | 22 | 22D | C/B | TC-KP |
| M39029/88 - | 485 | 416-2222-136I | Skt | 22 | 22D | C/B | TC-JP |
| M39029/88 - | 486 | 016-2020-139K | Skt | 20 | 20 | C/B | TC-JN |
| M39029/88 - | 487 | 016-2020-139A | Skt | 20 | 20 | C/B | TC-KN |
| M39029/88 - | 488 | 016-2020-139C | Skt | 20 | 20 | C/B | TC-KP |
| M39029/88 - | 489 | 416-2020-139I | Skt | 20 | 20 | C/B | TC-JP |
| M39029/88 - | 490 | 016-1616-140K | Skt | 16 | 16 | C/B | TC-JN |
| M39029/88 - | 491 | 016-1616-140A | Skt | 16 | 16 | C/B | TC-KN |
| M39029/88 - | 492 | 016-1616-140C | Skt | 16 | 16 | C/B | TC-KP |
| M39029/88 - | 493 | 416-1616-140I | Skt | 16 | 16 | C/B | TC-JP |

# Tri-Star Contact Selection Guide

## Contacts Per AS39029

| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-38999 Series II, MIL-DTL-83733 & MIL-DTL-24308** | | | | | | | |
| M39029/89 - | 494 | 016-2222-103K | Skt | 22 | 22D | C/B | TC-JN |
| M39029/89 - | 495 | 016-2222-103A | Skt | 22 | 22D | C/B | TC-KN |
| M39029/89 - | 496 | 016-2222-103C | Skt | 22 | 22D | C/B | TC-KP |
| M39029/89 - | 497 | 416-2222-103I | Skt | 22 | 22D | C/B | TC-JP |
| M39029/89 - | 498[1] | 016-2020-106K | Skt | 20 | 20 | C/B | TC-JN |
| M39029/89 - | 499[1] | 016-2020-106A | Skt | 20 | 20 | C/B | TC-KN |
| M39029/89 - | 500[1] | 016-2020-106C | Skt | 20 | 20 | C/B | TC-KP |
| M39029/89 - | 501[1] | 416-2020-106I | Skt | 20 | 20 | C/B | TC-JP |
| M39029/89 - | 502[1] | 016-1616-107K | Skt | 16 | 16 | C/B | TC-JN |
| M39029/89 - | 503[1] | 016-1616-107A | Skt | 16 | 16 | C/B | TC-KN |
| M39029/89 - | 504[1] | 016-1616-107C | Skt | 16 | 16 | C/B | TC-KP |
| M39029/89 - | 505[1] | 416-1616-107I | Skt | 16 | 16 | C/B | TC-JP |
| **Connector Family: MIL-DTL-38999 Series III** | | | | | | | |
| M39029/90 - | 529 | 315-08CX-232 | Pin | 8 | Various* | D/B | CX |
| **Connector Family: MIL-DTL-38999 Series III** | | | | | | | |
| M39029/91 - | 530 | 316-08CX-232-1 | Skt | 8 | Various* | D/B | CX |
| **Connector Families: MIL-PRF-6106, MIL-DTL-12883/40 & /41 Relay Sockets** | | | | | | | |
| M39029/92 - | 531 | Consult Factory | Skt | 22 | 22 | A/A | PWR |
| M39029/92 - | 532 | 316-2020-634 | Skt | 20 | 20 | A/A | PWR |
| M39029/92 - | 533 | 316-1616-634-L | Skt | 16 | 16 | A/A | PWR |
| M39029/92 - | 534 | 316-1620-634-L | Skt | 16 | 20 | A/A | PWR |
| M39029/92 - | 535 | 316-1212-634-L | Skt | 12 | 12 | A/A | PWR |
| M39029/92 - | 536 | 316-1216-634-L | Skt | 12 | 16 | A/A | PWR |
| **Connector Family: MIL-DTL-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 |
| **Connector Family: MIL-DTL-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 |

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

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information



| Spec/Sheet Number | Bin Code | Tri-Star Part Number | Style | Contact Size | Wire Barrel Size | Type / Class | Application |
|---|---|---|---|---|---|---|---|
| **Connector Families: MIL-DTL-12883/44, /45 & /46, & MIL-PRF-6106/23 Relay** | | | | | | | |
| M39029/101 - | 551 | 316-2228-194 | Skt | 22 | 28 | A/A | PWR |
| M39029/101 - | 552 | 316-2222-194 | Skt | 22 | 22 | A/A | PWR |
| M39029/101 - | 553 | 316-2020-194-L | Skt | 20 | 20 | A/A | PWR |
| M39029/101 - | 554 | 316-1616-194 | Skt | 16 | 16 | A/A | PWR |
| **Connector Families: MIL-DTL-38999 Series I, II, III & IV** | | | | | | | |
| M39029/102 - | 558 | 315-12CX-950 | Pin | 12 | Various* | D/B | CX |
| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
| M39029/103 - | 559 | 316-12CX-950 | Skt | 12 | Various* | D/B | CX |
| **Connector Families: MIL-DTL-38999 Series I, III, & IV, MIL-DTL-55302 & AS29600 Series A** | | | | | | | |
| M39029/106 - | 614 | L16-2222-136 | Skt | 22 | 22D | A/B | PWR |
| M39029/106 - | 615 | L16-2020-139 | Skt | 20 | 20 | A/B | PWR |
| M39029/106 - | 616 | L16-1616-140 | Skt | 16 | 16 | A/B | PWR |
| M39029/106 - | 617 | L16-1212-141 | Skt | 12 | 12 | A/B | PWR |
| M39029/106 - | 618 | L16-1010-231 | Skt | 10 | 10 | A/B | PWR |
| **Connector Families: MIL-DTL-38999 Series I, III, & IV, MIL-DTL-55302 & AS29600 Series A** | | | | | | | |
| M39029/107 - | 620 | L15-2222-103 | Pin | 22 | 22D | A/B | PWR |
| M39029/107 - | 621 | L15-2020-104 | Pin | 20 | 20 | A/B | PWR |
| M39029/107 - | 622 | L15-1616-107 | Pin | 16 | 16 | A/B | PWR |
| M39029/107 - | 623 | L15-1212-108 | Pin | 12 | 12 | A/B | PWR |
| M39029/107 - | 624 | L15-1010-231 | Pin | 10 | 10 | A/B | PWR |
| **Connector Families: Contact Bushing, Wire Crimp Barrel Reducer** | | | | | | | |
| M39029/112 | 8-10 | 900062-8-10 | N/A | 8 | 10 | N/A | N/A |
| M39029/112 | 4-6 | 900062-4-6 | N/A | 4 | 6 | N/A | N/A |
| M39029/112 | 0-2 | 900062-0-2 | N/A | 1/0 | 2 | N/A | N/A |
| M39029/112 | 4-6L | 900062-4-6L | N/A | 4 | 6 | N/A | N/A |
| M39029/112 | 1-2L | 900062-1-2L | N/A | 1 | 2 | N/A | N/A |
| M39029/112 | 4-5L | 900062-4-5L | N/A | 4 | 5 | N/A | N/A |
| M39029/112 | 6-8L | 900062-6-8L | N/A | 6 | 8 | N/A | N/A |
| M39029/112 | 6-9L | 900062-6-9L | N/A | 6 | 9 | N/A | N/A |
| M39029/112 | 1-6L | 900062-1-6L | N/A | 1 | 6 | N/A | N/A |
| M39029/112 | 4/0-2/0L | 900062-4/0-2/0L | N/A | 4/0 | 2/0 | N/A | N/A |
| M39029/112 | 4-8L | 900062-4-8L | N/A | 4 | 8 | N/A | N/A |
| M39029/112 | 6-10L | 900062-6-10L | N/A | 6 | 10 | N/A | N/A |
| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
| M39029/113 - | 625 | 315-08TX-A0136 | Pin | 8 | Various* | D/B | TX |
| **Connector Families: MIL-DTL-38999 Series I, III & IV** | | | | | | | |
| M39029/114 - | 628 | 316-08TX-A0136 | Skt | 8 | Various* | D/B | TX |

Soon to be released: **M39029/117**, **M39029/118**, **M39029/121** & **M39029/123** - Consult CarlisleIT / Tri-Star for more information.

*Consult Mil-Spec or CarlisleIT / Tri-Star for cable information

# 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-DTL-5015 | AS3400 | /44 | /45 | - | - | - | - | - | - |
| | AS3450 | /29 | /30 | /85 | /86 | - | - | - | - |
| MIL-DTL-22992 | L | /48 | /49 | - | - | - | - | - | - |
| MIL-DTL-24308 | - | /58 | /57 | /87 | /89 | /71 | /72 | /65 | /66 |
| | | /64 | /63 | - | - | - | - | /68 | /67 |
| | | - | - | - | - | - | - | /76 | /78 |
| MIL-DTL-26482 | I | /31 | /32 | /31 | /32 | - | - | /23 | /24 |
| | | - | - | - | - | - | - | /25 | /26 |
| | II | /4 | /5 | /9 | /10 | - | - | /7 | /8 |
| | | - | - | - | - | - | - | /74 | /73 |
| MIL-DTL-26500 | - | /31 | /32 | /31 | /32 | - | - | /54 | /55 |
| MIL-DTL-26518 | - | /31 | /32 | /31 | /32 | - | - | /54 | /55 |
| MIL-DTL-28748 | /3 | /34 | - | - | - | - | - | /40 | - |
| | /4 | - | /35 | - | - | - | - | /43 | - |
| | /9 | /36 | - | - | - | - | - | - | /41 |
| | /10 | - | /37 | - | - | - | - | /43 | /42 |
| | /13 | /34 | - | - | - | - | - | /79 | /80 |
| | /14 | - | /35 | - | - | - | - | - | - |
| MIL-DTL-28840 | - | /83 | /84 | - | - | - | - | /104 | /105 |
| MIL-DTL-38999 | I | /58 | /56 | /87 | /88 | /71 | /72 | /28 | /75 |
| | | - | - | - | - | - | - | /60 | /59 |
| | | - | - | - | - | - | - | /76 | /77 |
| | | - | - | - | - | - | - | /102 | /103 |
| | | | | | | | | /113 | /114 |
| | II | /58 | /57 | /87 | /89 | /71 | /72 | /28 | /27 |
| | | - | - | - | - | - | - | /76 | /78 |
| | | - | - | - | - | - | - | /102 | - |
| | III | /58 | /56 | /87 | /88 | /71 | /72 | /28 | /75 |
| | | - | - | - | - | - | - | /60 | /59 |
| | | /107 | /106 | - | - | - | - | /76 | /77 |
| | | - | - | - | - | - | - | /90 | /91 |
| | | - | - | - | - | - | - | /102 | /103 |
| | | | | | | | | /113 | /114 |
| MIL-DTL-38999 | IV | /58 | /56 | /87 | /88 | /71 | /72 | /28 | /75 |
| | | - | - | - | - | - | - | /60 | /59 |
| | | - | - | - | - | - | - | /76 | /77 |
| | | - | - | - | - | - | - | /102 | /103 |
| | | - | - | - | - | - | - | /113 | /114 |
| MIL-DTL-55302 | /68 | - | /57 | - | - | - | /72 | - | - |
| | /69 | /58 | - | - | - | /71 | - | - | - |
| | /71 | - | /57 | - | - | - | /72 | - | - |
| | /72 | - | /57 | - | - | - | - | - | - |
| | /75 | - | /57 | - | - | - | /72 | - | - |
| MIL-C-81511 | I | /47 | /33 | - | - | - | - | /6 | /13 |
| | II | /47 | /46 | - | - | - | - | /6 | /14 |
| | III | /18 | /17 | - | - | - | - | /19 | /21 |
| | | - | /22 | - | - | - | - | - | - |
| | IV | /17 | /16 | - | - | - | - | /19 | /21 |
| | | - | /22 | - | - | - | - | - | - |
| AS81659 | I | /2 | /3 | - | - | - | - | - | - |
| | II | /11 | /12 | - | - | - | - | - | - |
| AS81703 | II | /31 | /32 | /31 | /32 | - | - | - | - |
| | III | /4 | /5 | /9 | /10 | - | - | /7 | /8 |
| | | - | - | - | - | - | - | /74 | /73 |
| MIL-DTL-83527 | - | /93 | /94 | - | - | - | - | /96 | /95 |
| | - | - | - | - | - | - | - | /97 | /98 |
| | - | - | - | - | - | - | - | /99 | /100 |
| MIL-DTL-83723 | I | /4 | /5 | /9 | /10 | /71 | /72 | /7 | /8 |
| | | - | - | - | - | - | - | /74 | /73 |
| | II | /29 | /30 | /85 | /86 | - | - | - | - |
| | III | /4 | /5 | /9 | /10 | - | - | /7 | /8 |
| | | - | - | - | - | - | - | /74 | /73 |
| MIL-DTL-83733 | - | /4 | /5 | /9 | /10 | - | - | /7 | /8 |
| | - | /58 | /57 | /87 | /86 | - | - | /50 | /51 |
| | - | - | - | - | - | - | - | /74 | /73 |
| AS85028 | AS | /70 | /69 | - | - | - | - | - | - |
| Mil-S-12883 | /40 | - | /92 | - | - | - | - | - | - |
| | /41 | - | /92 | - | - | - | - | - | - |
| | /44 | - | /101 | - | - | - | - | - | - |
| | /45 | - | /101 | - | - | - | - | - | - |
| | /46 | - | /101 | - | - | - | - | - | - |
| AS81714 | - | /1 | - | - | - | - | - | - | - |

# Custom Contacts

## We Can Meet Your Requirements

### SPECIAL ORDERING INSTRUCTIONS

In addition to all of the standard CarlisleIT/Tri-Star, AS39029 specified, and cross-referenced configurations listed in this catalog, we also manufacture 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, we can meet your requirements through a custom order. We require the information specified below in order to provide you with an accurate quote for your custom contact needs.

### 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.

### 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.

### 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

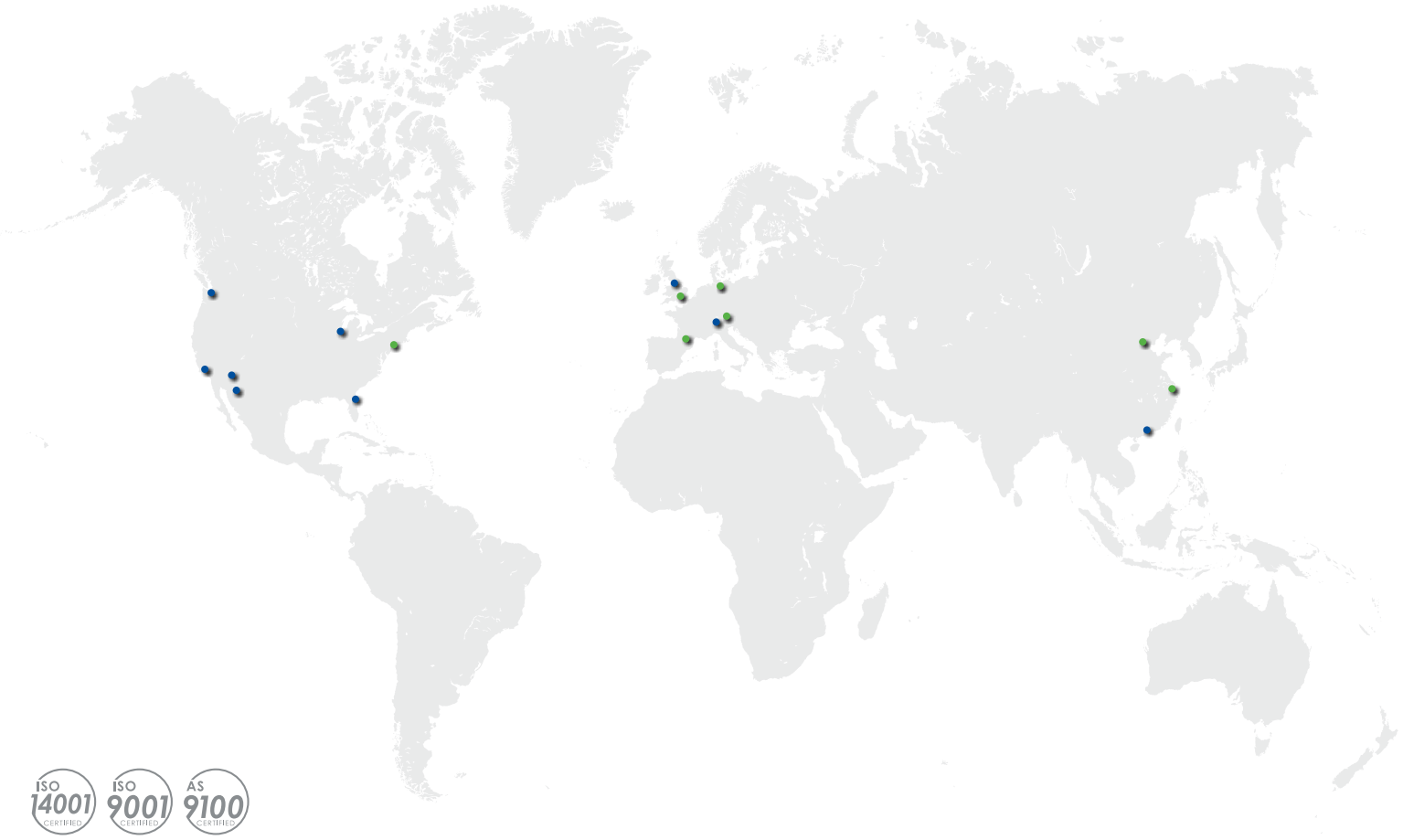



Wire-Wrap Contact




PC Tail Contact

CARLISLE
INTERCONNECT TECHNOLOGIES



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