

# Connectors

## New Product Guide

### Over 700 new Product Lines

#### Connectors - Multipole

- Mini CPC – Ideal for applications where size, contact density and environmental exposure are primary concerns
- For more details see page 11



tyco / Amphenol / AMP

#### Connectors – Power & Mains

- Comprehensive range of IEC inlet Filters, including compact, fused and switched variants
- For more details see pages 18-19



*Belling Lee*

#### Connectors – RF Coaxial

- Multicomp MMCX, MCX – Offering 30% reduction in size over SMB/SMC
- For more details see pages 23-24



**multicomp**

#### Connectors – Signal

- IEEE1394 – A range of connectors and cable assemblies for speeds up to 400Mbps
- For more details see pages 27-28



**molex**



# Welcome to **Farnell InOne**

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\*there is a £10 minimum order value for credit card purchases

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## Your award winning distributor

Farnell InOne has been voted Distributor of the Year 2003 by three separate awarding bodies!

**European Electronics Award –  
European Electronics Distributor of the Year 2003**

This prestigious award was granted by key trade publication, Electronics Weekly.

**Tyco Electronics Award –  
Distributor of the Year – UK and Ireland**

Granted for the second time to Farnell InOne by leading edge technology products company, Tyco Electronics.

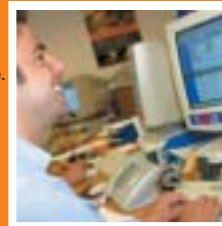
**EPCOS UK Award – Distributor of the Year 2003**

Awarded by leading passive component supplier, EPCOS UK.

A big thank you to our customers, suppliers and industry experts who have voted to make us Distributor of the Year!

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## All the latest products...

Welcome to issue 2 of our Connectors New Product Guide, focussing on providing you with the best connector ranges from Farnell InOne.

### Highlights from this issue include

- **Over 1200 products including over 700 new lines** from 19 suppliers, including
- **Tyco** – Miniature CPC (circular plastic) connectors **exclusive to Farnell InOne**. Ideal for industrial, instrumentation and transportation where size and environmental exposure is of primary concern. **See page 11**
- **Molex** – IEEE1394 industrial connectors offer a new standard of video and audio I/O and USB On-The-Go, enabling mobile devices to exchange data directly without the need from a host PC. **See page 28**
- **Multicomp** – RF connectors. Major price reductions enable you to reduce the cost of your application without compromising on quality. **See pages 21-24**

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## ...from industry leading manufacturers





## Metric Insulated Terminals - DIN 46237



| Wire Details                         | Insulation Colour |             |             |
|--------------------------------------|-------------------|-------------|-------------|
|                                      | Red               | Blue        | Yellow      |
| Wire Size in mm <sup>2</sup>         | 0.25 - 1.65       | 1.04 - 2.63 | 2.63 - 6.64 |
| Single Stranded Wire Size Dia. in mm | 0.57 - 1.44       | 1.14 - 1.82 | 1.82 - 2.89 |
| Equivalent A.W.G.                    | 22 - 16           | 16 - 14     | 12 - 10     |
| Equivalent S.W.G.                    | 29 - 17           | 17 - 13     | 11 - 6      |
| Suitable Metric Cables               |                   |             |             |
| Stranded                             | 19/0.15           | 19/0.3      | 19/0.45     |
|                                      | 13/0.2            | 7/0.5       | 44/0.3      |
|                                      | 16/0.2            | 21/0.3      | 7/0.85      |
|                                      | 19/0.2            | 30/0.25     | 56/0.3      |
|                                      | 14/0.25           | 19/0.335    | 65/0.3      |
|                                      | 24/0.2            | 63/0.2      | 37/0.4      |
|                                      | 19/0.25           | 28/0.3      | 159/0.2     |
|                                      | 32/0.2            | 35/0.3      | 84/0.3      |
|                                      | 40/0.2            | 51/0.25     | 7/1.04      |
|                                      | 19/0.3            |             |             |
|                                      |                   |             |             |
| Single                               | 1/0.9             | 1/1.38      | 1/2.25      |
|                                      | 1/1.13            | 1/1.78      |             |

AWG=American Wire Gauge SWG=Standard Wire Gauge

Conductor Make up Metric cables i.e. 19/0.15=19 strands of 0.15mm diameter.

CS403

## Un-insulated Crimp Terminals

## Ring - DIN 46234



334474

| Stud Size<br>mm                                            | Mftrs.    | Order Code | Price Per Pack |       |      |
|------------------------------------------------------------|-----------|------------|----------------|-------|------|
|                                                            | List No.  |            | 1+             | 5+    | 10+  |
| 0.1 to 0.5mm <sup>2</sup> , (26 to 22 AWG) - 100 Per Pack  |           |            |                |       |      |
| 2                                                          | GS2-0.5   | 386-536812 | 3.35           | 2.85  | 2.42 |
| 2.5                                                        | GS2.5-0.5 | 386-537012 | 3.35           | 2.85  | 2.42 |
| 3                                                          | GS3-0.5   | 386-538112 | 3.35           | 2.85  | 2.42 |
| 3.5                                                        | GS3.5-0.5 | 386-539312 | 3.35           | 2.85  | 2.42 |
| 4                                                          | GS4-0.5   | 386-540012 | 3.35           | 2.85  | 2.42 |
| 5                                                          | GS5-0.5   | 386-541112 | 3.35           | 2.85  | 2.42 |
| 0.25 to 1.5mm <sup>2</sup> , (22 to 16 AWG) - 100 Per Pack |           |            |                |       |      |
| 2.5                                                        | GS2.5-1   | 386-542312 | 3.87           | 3.29  | 2.80 |
| 3                                                          | GS3-1     | 386-543512 | 3.87           | 3.29  | 2.80 |
| 3.5                                                        | GS3.5-1   | 386-544712 | 3.87           | 3.29  | 2.80 |
| 4                                                          | GS4-1     | 386-545912 | 3.87           | 3.29  | 2.80 |
| 5                                                          | GS5-1     | 386-546012 | 3.87           | 3.29  | 2.80 |
| 6                                                          | GS6S-1    | 386-547212 | 5.78           | 4.92  | 4.18 |
| 8                                                          | GS8-1     | 386-548412 | 7.04           | 5.99  | 5.09 |
| 1 to 2.5mm <sup>2</sup> , (16 to 24 AWG), 100 Per Pack     |           |            |                |       |      |
| 3                                                          | GS3-2.5   | 386-549612 | 6.17           | 5.24  | 4.46 |
| 3.5                                                        | GS3.5-2.5 | 386-550212 | 6.17           | 5.24  | 4.46 |
| 4                                                          | GS4-2.5   | 386-551412 | 6.17           | 5.24  | 4.46 |
| 5                                                          | GS5-2.5   | 386-552612 | 6.17           | 5.24  | 4.46 |
| 6                                                          | GS6-2.5   | 386-553812 | 6.79           | 5.77  | 4.91 |
| 8                                                          | GS8-2.5   | 386-554012 | 9.00           | 7.64  | 6.50 |
| 10                                                         | GS10-2.5  | 386-555112 | 5.79           | 4.93  | 4.18 |
| 12                                                         | GS12-2.5  | 386-556312 | 5.79           | 4.93  | 4.18 |
| 2.5 to 6mm <sup>2</sup> , (12 to 10 AWG) - 50 Per Pack     |           |            |                |       |      |
| 4                                                          | GS4-6     | 386-557512 | 5.32           | 4.53  | 3.85 |
| 5                                                          | GS5-6     | 386-558712 | 5.32           | 4.53  | 3.85 |
| 6                                                          | GS6-6     | 386-559912 | 5.32           | 4.53  | 3.85 |
| 8                                                          | GS8-6     | 386-560512 | 6.79           | 5.77  | 4.91 |
| 10                                                         | GS10-6    | 386-561712 | 7.92           | 6.74  | 5.73 |
| 12                                                         | GS12-6    | 386-562912 | 7.92           | 6.74  | 5.73 |
| 6 to 10mm <sup>2</sup> , (8 AWG) - 25 Per Pack             |           |            |                |       |      |
| 5                                                          | GS5-10    | 386-563012 | 3.84           | 3.27  | 2.78 |
| 6                                                          | GS6-10    | 386-564212 | 3.84           | 3.27  | 2.78 |
| 8                                                          | GS8-10    | 386-565412 | 4.30           | 3.65  | 3.10 |
| 10                                                         | GS10-10   | 386-566612 | 5.00           | 4.25  | 3.61 |
| 12                                                         | GS12-10   | 386-567812 | 8.99           | 7.63  | 6.49 |
| 10 to 16mm <sup>2</sup> , (6 AWG) - 25 Per Pack            |           |            |                |       |      |
| 5                                                          | GS5-16    | 386-568012 | 5.47           | 4.65  | 3.95 |
| 6                                                          | GS6-16    | 386-569112 | 5.47           | 4.65  | 3.95 |
| 8                                                          | GS8-16    | 386-570812 | 6.18           | 5.25  | 4.46 |
| 10                                                         | GS10-16   | 386-571012 | 6.98           | 5.94  | 5.04 |
| 12                                                         | GS12-16   | 386-572112 | 13.02          | 11.08 | 9.41 |
| 16 to 25mm <sup>2</sup> , (4 AWG) - 10 Per Pack            |           |            |                |       |      |
| 5                                                          | GS5-25    | 386-573312 | 4.57           | 3.89  | 3.31 |
| 6                                                          | GS6-25    | 386-574512 | 4.57           | 3.89  | 3.31 |
| 8                                                          | GS8-25    | 386-575712 | 4.57           | 3.89  | 3.31 |
| 10                                                         | GS10-25   | 386-576912 | 4.57           | 3.89  | 3.31 |
| 12                                                         | GS12-25   | 386-577012 | 7.30           | 6.20  | 5.27 |
| 16                                                         | GS16-25   | 386-578212 | 9.54           | 8.10  | 6.88 |

| Stud Size<br>mm                                  | Mftrs.   | Order Code | Price Per Pack |      |      |
|--------------------------------------------------|----------|------------|----------------|------|------|
|                                                  | List No. |            | 1+             | 5+   | 10+  |
| 25 to 35mm <sup>2</sup> , (2 AWG) - 10 Per Pack  |          |            |                |      |      |
| 6                                                | GS6-35   | 386-579412 | 6.08           | 5.17 | 4.40 |
| 8                                                | GS8-35   | 386-580012 | 6.08           | 5.17 | 4.40 |
| 10                                               | GS10-35  | 386-581212 | 6.08           | 5.17 | 4.40 |
| 12                                               | GS12-35  | 386-582412 | 8.32           | 7.07 | 6.01 |
| 16                                               | GS16-35  | 386-583612 | 11.27          | 9.59 | 8.15 |
| 35 to 50mm <sup>2</sup> , (1/0 AWG) - 5 Per Pack |          |            |                |      |      |
| 6                                                | GS6-50   | 386-584812 | 4.57           | 3.88 | 3.30 |
| 8                                                | GS8-50   | 386-585012 | 4.57           | 3.88 | 3.30 |
| 10                                               | GS10-50  | 386-586112 | 4.57           | 3.88 | 3.30 |
| 12                                               | GS12-50  | 386-587312 | 4.90           | 4.16 | 3.54 |
| 16                                               | GS16-50  | 386-588512 | 6.56           | 5.57 | 4.74 |
| 50 to 70mm <sup>2</sup> , (2/0 AWG) - 5 Per Pack |          |            |                |      |      |
| 6                                                | GS6-70   | 386-589712 | 5.81           | 4.95 | 4.20 |
| 8                                                | GS8-70   | 386-590312 | 5.81           | 4.95 | 4.20 |
| 10                                               | GS10-70  | 386-591512 | 5.81           | 4.95 | 4.20 |
| 12                                               | GS12-70  | 386-592712 | 5.81           | 4.95 | 4.20 |
| 16                                               | GS16-70  | 386-593912 | 8.48           | 7.21 | 6.13 |

## Ratchet Crimp Tool

## Non-insulated Terminals



Ratchet hand crimping tool for use with the following non-insulated cable lugs:

1. 0.1 - 0.5mm<sup>2</sup> (AWG 26 - 20)
2. 0.5 - 2.5mm<sup>2</sup> (AWG 22 - 14)
3. 4.0 - 6.0mm<sup>2</sup> (AWG 12 - 10)
4. 10mm<sup>2</sup> (AWG 8)



334498

| Mftrs. List No. | Order Code        | Price Each |
|-----------------|-------------------|------------|
|                 |                   | 1+         |
| WC-0510DIN      | <b>390-558512</b> | 147.19     |

## Crimp Tool for Copper Tube Terminals

## DAVICO



Hexagon crimp

A high quality tool for crimping copper tube terminals with hexagon profile. A revolving die enables wire sizes between 6mm<sup>2</sup> and 50mm<sup>2</sup> to be easily crimped with minimal operator force. During the crimping process the solid core wire size is indented in the terminal to verify correct usage, ie, 6, 10, 16, etc. Metal body with black finish and rubber handles.

Mftrs. List No. DHC 50H

CS429X

| Order Code       | Price Each |       |       |       |
|------------------|------------|-------|-------|-------|
|                  | 1+         | 5+    | 10+   | 25+   |
| <b>269-06212</b> | 93.25      | 87.96 | 79.99 | 72.04 |



## LTO Series

## Push On Terminals



- Push on terminals straight
- Brass, pre tinned



| Tab Size     | Wire Size                | Insulation $\varnothing$ | Mfrs. List No.  | Order Code |
|--------------|--------------------------|--------------------------|-----------------|------------|
| 6.35 x 0.8mm | 0.5 - 1.0mm <sup>2</sup> | 2.6 - 3.3mm              | STO-1.0T-250N   | 362-543612 |
| 6.35 x 0.8mm | 1.0 - 2.5mm <sup>2</sup> | 2.6 - 4.3mm              | STO-2.5T-250N   | 362-544812 |
| 4.8 x 0.5mm  | 0.5 - 1.0mm <sup>2</sup> | 2.0 - 3.3mm              | STO-1.0T-187N-5 | 362-541212 |
| 4.8 x 0.8mm  | 0.5 - 1.0mm <sup>2</sup> | 2.0 - 3.3mm              | STO-1.0T-187N-8 | 362-542412 |
| 2.8 x 0.8mm  | 0.5 - 1.0mm <sup>2</sup> | 1.5 - 3.3mm              | STO-1.0T-110N-8 | 362-539412 |
| 2.8 x 0.5mm  | 0.5 - 1.0mm <sup>2</sup> | 2.0 - 3.3mm              | STO-1.0T-110N-5 | 362-540012 |

230253

| Order Multiple=100      |                   | Price Each |       |       |       |
|-------------------------|-------------------|------------|-------|-------|-------|
| Mfrs. List No.          | Order Code        | 100+       | 500+  | 1K+   | 5K+   |
| <b>Push On Terminal</b> |                   |            |       |       |       |
| STO-1.0T-250N           | <b>362-543612</b> | 0.034      | 0.032 | 0.029 | 0.024 |
| STO-2.5T-250N           | <b>362-544812</b> | 0.034      | 0.033 | 0.029 | 0.024 |
| STO-1.0T-187N-5         | <b>362-541212</b> | 0.027      | 0.024 | 0.021 | 0.019 |
| STO-1.0T-187N-8         | <b>362-542412</b> | 0.027      | 0.024 | 0.021 | 0.019 |
| STO-1.0T-110N-8         | <b>362-539412</b> | 0.019      | 0.016 | 0.012 | 0.01  |
| STO-1.0T-110N-5         | <b>362-540012</b> | 0.019      | 0.016 | 0.012 | 0.01  |
| <b>Cover</b>            |                   |            |       |       |       |
| 2.8mm 01019             | <b>362-550312</b> | 0.022      | 0.02  | 0.015 | 0.012 |
| 4.8mm 4803-187          | <b>362-551512</b> | 0.022      | 0.02  | 0.015 | 0.012 |
| 6.3mm 01022-250         | <b>362-552712</b> | 0.022      | 0.02  | 0.015 | 0.012 |

## Crimp Terminal Kits

## Industrial crimp Kit

## Ampliversal



- CRIMPAC Hand Tool and 18 various Connector parts (Some new developments)
- Suitable for the Industrial Electrician
- Double crimping Hand tool crimps both the conductor and insulation support
- Box is robust and constructed of light weight high tensile gray plastic

| Kit Contents:                                            |                        |          |
|----------------------------------------------------------|------------------------|----------|
| Description                                              | Manufacturers Part No. | Quantity |
| PG Butt Splices 0.5-1.6 mm <sup>2</sup>                  | 0-0034070-0            | 40       |
| PG Butt Splices 1.0 - 2.6 mm <sup>2</sup>                | 0-0034071-0            | 40       |
| PG Butt Splices 2.7 - 6.6 mm <sup>2</sup>                | 0-0034072-0            | 40       |
| PG Ring Tongue 2.7-6.6 mm <sup>2</sup> ; M10             | 0-0160124-0            | 40       |
| PG Ring Tongue 0.5-1.6 mm <sup>2</sup> ; M5              | 0-0130014-0            | 40       |
| PG Ring Tongue 0.5-1.6 mm <sup>2</sup> ; M2,6            | 0-0165004-0            | 40       |
| PG Pin, Short 0.5-1.6 mm <sup>2</sup>                    | 0-0165143-0            | 40       |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M5              | 0-0130102-0            | 40       |
| PG Spade 2.7-6.6 mm <sup>2</sup> ; M4                    | 0-0165015-0            | 30       |
| PG Spade 1.0-2.6 mm <sup>2</sup> ; M5                    | 0-0160171-0            | 40       |
| PG Spade 1.0-2.6 mm <sup>2</sup> ; M4                    | 0-0165012-1            | 40       |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M8              | 0-0160296-0            | 40       |
| PG Spade 2.7-6.6 mm <sup>2</sup> ; M5                    | 0-0165017-0            | 40       |
| PG Pin, Long 2.7-6.6 mm <sup>2</sup>                     | 0-0165085-0            | 40       |
| PG Pin, Short 1.0-1.6 mm <sup>2</sup>                    | 0-0165075-1            | 40       |
| PIDG Faston Receptacle 0.5-1.6 mm <sup>2</sup> ; 4.8x0.8 | 9-0160481-1            | 40       |
| PIDG Faston Receptacle 1.0-2.6 mm <sup>2</sup> ; 6.3x0.8 | 9-0160313-2            | 40       |
| Electro-Tap; 1.0-2.5 mm <sup>2</sup>                     | 0-0735398-0            | 20       |
| CRIMPAC Handtool                                         | 0-0825508-5            | 1        |

243383

|                      |                           | Price Each        |        |     |
|----------------------|---------------------------|-------------------|--------|-----|
| Description          | Manufacturers Part Number | Order Code        | 1+     | +   |
| Industrial Crimp Kit | 0-0725923-0               | <b>421-767612</b> | 114.76 | — — |

## Auto-Repair Crimp Kit



- Intended for Automobile repair and maintenance
- Kit contains SUPERCHAMP Hand Tool and 17 various Solder-free connectors
- Can strip and cut wire as well as crimping terminals
- Box is especially robust and constructed of light weight high tensile plastic

| Kit Contents:                                                       |                           |          |
|---------------------------------------------------------------------|---------------------------|----------|
| Description                                                         | Manufacturers Part Number | Quantity |
| PG Butt Splices 1.0 - 2.6 mm <sup>2</sup>                           | 0-0034071-0               | 20       |
| PG Butt Splices 2.7 - 6.6 mm <sup>2</sup>                           | 0-0034072-0               | 15       |
| PG Ring Tongue 2.7-6.6 mm <sup>2</sup> ; M6                         | 0-0165035-0               | 15       |
| PG Ring Tongue 0.5-1.0 mm <sup>2</sup> ; M4                         | 0-0034148-0               | 50       |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M4                         | 0-0034160-0               | 50       |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M5                         | 0-0130102-0               | 50       |
| Female Bullet 5 mm                                                  | 0-0165400-1               | 20       |
| Male Bullet 5 mm                                                    | 0-0160215-0               | 20       |
| Faston Receptacle fully insulated 1.0-2.5 mm <sup>2</sup> ; 6.3x0.8 | 0-0735160-0               | 20       |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M8                         | 0-0160296-0               | 15       |
| PIDG Faston Receptacle 0.5-1.6 mm <sup>2</sup> ; 6.3x0.8            | 9-0160583-2               | 50       |
| PIDG Faston Piggy Back receptacle 1.0-2.6 mm <sup>2</sup> ; 6.3x0.8 | 9-0160463-2               | 50       |
| PIDG Faston Receptacle 1.0-2.6 mm <sup>2</sup> ; 6.3x0.8            | 9-0160313-2               | 50       |
| PIDG Faston Receptacle 2.7-6.6 mm <sup>2</sup> ; 6.3x0.8            | 0-0160314-2               | 40       |
| PIDG Faston Receptacle 1.0-2.6 mm <sup>2</sup> ; 8.0x0.75           | 9-0160326-2               | 20       |
| PIDG Faston Blade terminal 1.0-2.6 mm <sup>2</sup> ; 6.3x0.8        | 0-0140971-2               | 40       |
| Electro-Tap; 1.0-2.5 mm <sup>2</sup>                                | 0-0735398-0               | 5        |
| SUPER CHAMP Hand Tool                                               | 0-0169060-8               | 1        |

243381

|                 |                        | Price Each        |       |     |
|-----------------|------------------------|-------------------|-------|-----|
| Description     | Manufacturers Part No. | Order Code        | 1+    | +   |
| Auto-repair Kit | 0-0725929-0            | <b>421-768812</b> | 91.56 | — — |

5

## AMPLISET

## Service and repair Crimp Kit



- A Handy, lightweight and practical Service and repair crimp kit
- Contains The Superchamp precision crimp tool and 21 various solderless connectors
- Snap closes to a hand sized package that may be wall mounted

| Kit Contents:                                            |                           |          |
|----------------------------------------------------------|---------------------------|----------|
| Description                                              | Manufacturers Part Number | Quantity |
| PG Butt splice 0.5 - 1.6 mm <sup>2</sup>                 | 0-0034070-0               | 7        |
| PG Ring tongue 0.5-1.6 mm <sup>2</sup> ; M3              | 0-0034142-0               | 3        |
| PG Ring tongue 0.5-1.6 mm <sup>2</sup> ; M5              | 0-0130014-0               | 3        |
| PG Spade 0.5-1.6 mm <sup>2</sup> ; M2,6                  | 0-0165004-0               | 3        |
| PG Pin, 0.5-1.6 mm <sup>2</sup> Short                    | 0-0165143-0               | 3        |
| PG Pin, 0.5-1.6 mm <sup>2</sup> Long                     | 0-0165167-0               | 2        |
| PG Butt Splice 1.0 - 2.6 mm <sup>2</sup>                 | 0-0034071-0               | 5        |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M5              | 0-0130102-0               | 3        |
| PG Spade 1.0-2.6 mm <sup>2</sup> ; M4                    | 0-0034166-0               | 2        |
| PG Pin, 1.0-2.6 mm <sup>2</sup>                          | 0-0165171-1               | 2        |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M6              | 0-0165035-0               | 2        |
| PG Ring Tongue 1.0-2.6 mm <sup>2</sup> ; M8              | 0-0160296-0               | 1        |
| PG Spade 2.7-6.6 mm <sup>2</sup> ; M5                    | 0-0165017-0               | 1        |
| PG Pin, 2.7-6.6 mm <sup>2</sup>                          | 0-0165085-0               | 1        |
| PE Nylon End Splice 1.5-6.6 mm <sup>2</sup>              | 0-0328730-0               | 3        |
| PIDG Faston Receptacle 0.5-1.6 mm <sup>2</sup> ; 6.3x0.8 | 9-0160583-2               | 3        |

Crimp Terminal Kits - continued

AMPLISET - continued

Service and repair Crimp Kit  
- continued

| Kit Contents:                                     |             |   |
|---------------------------------------------------|-------------|---|
| PIDG Faston Receptacle 1,0-2,6 mm²; 6,3x0,8       | 9-0160313-2 | 2 |
| Faston Receptacle for Tab 1,0-2,6 mm²; 6,3x0,8    | 0-0735159-0 | 2 |
| Faston Piggy Back Receptacle 1,0-2,6 mm²; 6,3x0,8 | 9-0160463-2 | 2 |
| PIDG Faston Receptacle 2,7-6,6 mm²; 6,3x0,8       | 0-0160314-2 | 1 |
| SUPER CHAMP Crimp Tool                            | 0-0169060-8 | 1 |

243385

| Description          | Mftrs Part No. | Order Code | Price Each |     |
|----------------------|----------------|------------|------------|-----|
|                      |                |            | 1+         | +   |
| AMPLISET-Service-Kit | 0-0725972-0    | 421-766412 | 26.36      | — — |

Multipole Circular

MIL-C-26482 Series - Olive

Miniature Bayonet Lock Connectors



The CPT series of miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.



| Manufacturers List Number | Order Code | Manufacturers List Number | Order Code |
|---------------------------|------------|---------------------------|------------|
| CPT02A10-6P               | 483-549912 | CPT06E10-6PSR             | 483-565712 |
| CPT02A10-7P               | 483-550512 | CPT06E10-7PSR             | 483-566912 |
| CPT02A12-8P               | 483-551712 | CPT06E12-8PSR             | 483-567012 |
| CPT02A12-10P              | 483-552912 | CPT06E12-10PSR            | 483-568212 |
| CPT02A14-12P              | 483-553012 | CPT06E14-12PSR            | 483-569412 |
| CPT02A14-19P              | 483-554212 | CPT06E14-19PSR            | 483-570012 |
| CPT02A16-26P              | 483-555412 | CPT06E16-26PSR            | 483-571212 |
| CPT02A18-32P              | 483-556612 | CPT06E18-32PSR            | 483-572412 |
| CPT02A10-6S               | 483-557812 | CPT06E10-6SSR             | 483-573612 |
| CPT02A10-7S               | 483-558012 | CPT06E10-7SSR             | 483-574812 |
| CPT02A12-8S               | 483-559112 | CPT06E12-8SSR             | 483-575012 |
| CPT02A12-10S              | 483-560812 | CPT06E12-10SSR            | 483-576112 |
| CPT02A14-12S              | 483-561012 | CPT06E14-12SSR            | 483-577312 |
| CPT02A14-19S              | 483-562112 | CPT06E14-19SSR            | 483-578512 |
| CPT02A16-26S              | 483-563312 | CPT06E16-26SSR            | 483-579712 |
| CPT02A18-32S              | 483-564512 | CPT06E18-32SSR            | 483-580312 |

Specifications

|                       | Size 16 Contacts | Size 20 Contacts |
|-----------------------|------------------|------------------|
| Current Rating        | 13.0A            | 7.5A             |
| Wire Range            | 16 to 20 AWG     | 20 to 24 AWG     |
| Voltage Rating AC     | 600V rms         |                  |
| Voltage Rating DC     | 700V             |                  |
| Test Voltage AC       | 1500V            |                  |
| Operating Temperature | -55°C to 125°C   |                  |

Materials

|          |                                                                |
|----------|----------------------------------------------------------------|
| Housing  | Aluminium alloy according to QQ-A-591                          |
| Contacts | Copper alloy, Gold plated over nickel                          |
| Inserts  | High insulation synthetic rubber in accordance with MIL-R-3065 |

Insulation Resistance ≥ 5 x 10<sup>9</sup> MR

335233

| Shell No.<br>Size | Contact<br>Contacts | Contact<br>Size |            |       | Price Each |       |       |       |  |
|-------------------|---------------------|-----------------|------------|-------|------------|-------|-------|-------|--|
|                   |                     |                 | Order Code | 1+    | 10+        | 25+   | 50+   | 250+  |  |
| Plug - Chassis    |                     |                 |            |       |            |       |       |       |  |
| 10                | 6                   | 20              | 483-549912 | 8.75  | 7.44       | 7.18  | 6.83  | 5.97  |  |
| 10                | 7                   | 20              | 483-550512 | 8.97  | 7.62       | 7.36  | 7.00  | 6.12  |  |
| 12                | 8                   | 20              | 483-551712 | 10.05 | 8.54       | 8.24  | 7.84  | 6.85  |  |
| 12                | 10                  | 20              | 483-552912 | 11.21 | 9.53       | 9.19  | 8.74  | 7.64  |  |
| 14                | 8 (+4)              | 20 ( 16)        | 483-553012 | 12.13 | 10.31      | 9.95  | 9.46  | 8.27  |  |
| 14                | 19                  | 20              | 483-554212 | 14.98 | 12.73      | 12.28 | 11.68 | 10.21 |  |
| 16                | 26                  | 20              | 483-555412 | 17.70 | 15.05      | 14.51 | 13.81 | 12.08 |  |
| 18                | 32                  | 20              | 483-556612 | 19.91 | 16.92      | 16.33 | 15.53 | 13.58 |  |
| Socket - Chassis  |                     |                 |            |       |            |       |       |       |  |
| 10                | 6                   | 20              | 483-557812 | 10.31 | 8.76       | 8.45  | 8.04  | 7.03  |  |
| 10                | 7                   | 20              | 483-558012 | 10.97 | 9.32       | 9.00  | 8.56  | 7.48  |  |
| 12                | 8                   | 20              | 483-559112 | 12.26 | 10.42      | 10.05 | 9.56  | 8.36  |  |
| 12                | 10                  | 20              | 483-560812 | 12.53 | 10.65      | 10.27 | 9.77  | 8.55  |  |
| 14                | 8 (+4)              | 20 ( 16)        | 483-561012 | 16.62 | 14.13      | 13.63 | 12.96 | 11.33 |  |

| Shell No.<br>Size | Contact<br>Contacts | Contact<br>Size | Price Each |       |       |       |       |       |
|-------------------|---------------------|-----------------|------------|-------|-------|-------|-------|-------|
| Socket - Chassis  |                     |                 |            |       |       |       |       |       |
| 14                | 19                  | 20              | 483-562112 | 20.45 | 17.38 | 16.77 | 15.95 | 13.94 |
| 16                | 26                  | 20              | 483-563312 | 26.82 | 22.80 | 21.99 | 20.92 | 18.29 |
| 18                | 32                  | 20              | 483-564512 | 30.86 | 26.23 | 25.31 | 24.07 | 21.05 |
| Plug, Cable       |                     |                 |            |       |       |       |       |       |
| 10                | 6                   | 20              | 483-565712 | 17.98 | 15.28 | 14.74 | 14.02 | 12.26 |
| 10                | 7                   | 20              | 483-566912 | 17.93 | 15.24 | 14.70 | 13.99 | 13.52 |
| 12                | 8                   | 20              | 483-567012 | 19.56 | 16.63 | 16.04 | 15.26 | 14.67 |
| 12                | 10                  | 20              | 483-568212 | 20.30 | 17.26 | 16.65 | 15.83 | 15.21 |
| 14                | 8 (+4)              | 20 ( 16)        | 483-569412 | 22.83 | 19.41 | 18.72 | 17.81 | 15.56 |
| 14                | 19                  | 20              | 483-570012 | 25.12 | 21.35 | 20.60 | 19.59 | 17.12 |
| 16                | 26                  | 20              | 483-571212 | 26.99 | 22.94 | 22.13 | 21.05 | 20.45 |
| 18                | 32                  | 20              | 483-572412 | 31.60 | 26.86 | 25.91 | 24.65 | 23.24 |
| Socket, Cable     |                     |                 |            |       |       |       |       |       |
| 10                | 6                   | 20              | 483-573612 | 19.29 | 16.40 | 15.82 | 15.05 | 14.45 |
| 10                | 7                   | 20              | 483-574812 | 19.37 | 16.46 | 15.88 | 15.11 | 14.53 |
| 12                | 8                   | 20              | 483-575012 | 21.15 | 17.98 | 17.34 | 16.50 | 15.86 |
| 12                | 10                  | 20              | 483-576112 | 21.93 | 18.64 | 17.98 | 17.11 | 16.44 |
| 14                | 8 (+4)              | 20 ( 16)        | 483-577312 | 25.19 | 21.41 | 20.66 | 19.65 | 19.03 |
| 14                | 19                  | 20              | 483-578512 | 28.79 | 24.47 | 23.61 | 22.46 | 19.64 |
| 16                | 26                  | 20              | 483-579712 | 36.79 | 31.27 | 30.17 | 28.70 | 25.09 |
| 18                | 32                  | 20              | 483-580312 | 42.84 | 36.41 | 35.13 | 33.42 | 29.21 |

MIL-C-26482 Series - Nickel

Miniature Bayonet Lock Connectors

The CPT series of Nickel Plated, miniature bayonet lock connectors are designed to conform to the materials and performance requirements of MIL-C 26482 series 1 specifications. Interchangeability and reliability with other connectors conforming to this specification is assured.

| Mftrs. List No. | Order Code | Mftrs. List No. | Order Code |
|-----------------|------------|-----------------|------------|
| CPT02A10-6PN    | 483-676512 | CPT06E10-6PSRN  | 483-680712 |
| CPT02A12-10PN   | 483-677712 | CPT06E12-10PSRN | 483-681912 |
| CPT02A10-6SN    | 483-678912 | CPT06E10-6SSRN  | 483-682012 |
| CPT02A12-10SN   | 483-679012 | CPT06E12-10SSRN | 483-683212 |

Specifications

|                       |                |
|-----------------------|----------------|
| Contacts              | Size 20        |
| Current Rating        | 7.5A           |
| Wire Range            | 20 to 24 AWG   |
| Voltage Rating AC     | 600V rms       |
| Voltage Rating DC     | 700V           |
| Test Voltage AC       | 1500V          |
| Operating Temperature | -55°C to 125°C |

Materials

|          |                                                                |
|----------|----------------------------------------------------------------|
| Housing  | Aluminium alloy according to QQ-A-591                          |
| Contacts | Copper alloy, Gold plated over nickel                          |
| Inserts  | High insulation synthetic rubber in accordance with MIL-R-3065 |

Insulation Resistance ≥ 5 x 10<sup>9</sup> MR

335234

| Shell<br>Size    | No.<br>Contacts | Contact<br>Size |            | Price Each |       |       |       |       |
|------------------|-----------------|-----------------|------------|------------|-------|-------|-------|-------|
|                  |                 |                 | Order Code | 1+         | 10+   | 25+   | 50+   | 250+  |
| Plug - Chassis   |                 |                 |            |            |       |       |       |       |
| 10               | 6               | 20              | 483-676512 | 8.75       | 7.44  | 7.18  | 6.83  | 5.97  |
| 12               | 10              | 20              | 483-677712 | 11.21      | 9.53  | 9.19  | 8.74  | 7.64  |
| Socket - Chassis |                 |                 |            |            |       |       |       |       |
| 10               | 6               | 20              | 483-678912 | 10.31      | 8.76  | 8.45  | 8.04  | 7.03  |
| 12               | 10              | 20              | 483-679012 | 12.53      | 10.65 | 10.27 | 9.77  | 8.55  |
| Plug - Cable     |                 |                 |            |            |       |       |       |       |
| 10               | 6               | 20              | 483-680712 | 17.98      | 15.28 | 14.74 | 14.02 | 12.26 |
| 12               | 10              | 20              | 483-681912 | 20.30      | 17.26 | 16.65 | 15.83 | 15.21 |
| Socket - Cable   |                 |                 |            |            |       |       |       |       |
| 10               | 6               | 20              | 483-682012 | 19.29      | 16.40 | 15.82 | 15.05 | 14.45 |
| 12               | 10              | 20              | 483-683212 | 21.93      | 18.64 | 17.98 | 17.11 | 16.44 |

\*Terms and conditions apply



## MIL-C-5015 Connectors

CONTACT



The CM1 series of connectors derives from the MIL-C-5015 standard, but is different because of its bayonet coupling, which reduces the coupling time and makes the coupling easier when the connector is in an awkward position. Another advantage is the resistance to vibrations because of the three stainless steel wear pins located near the end of the bayonet track of the receptacle.

This series uses the same inserts as the MIL-C-5015 and the VG 95234 and is interchangeable with the latter.

Typical applications include road and rail transport, military vehicles, communication and radar apparatus, cinema and television lighting systems and industrial automation.

## Specifications

|                         | Size 8 Contacts | Size 12 Contacts | Size 16 Contacts |
|-------------------------|-----------------|------------------|------------------|
| Current Rating at 20°C  | 73A             | 41A              | 22A              |
| Contact Resistance Max. | 1.0mR           | 3.0mR            | 6.0mR            |
| Wire Size               | 8 to 10 AWG     | 12 to 14 AWG     | 16 to 22 AWG     |

## Rating

|                   | I        | A        | D        |
|-------------------|----------|----------|----------|
| Voltage Rating dc | 250V     | 700V     | 900V     |
| Voltage Rating ac | 200V     | 500V     | 1250V    |
| Test Voltage      | 1000V ac | 2000V ac | 2800V ac |

## Materials

|           |                                                                                                        |
|-----------|--------------------------------------------------------------------------------------------------------|
| Housing   | Aluminum alloy with Cadmium free surface coating                                                       |
| Contacts  | Copper alloy with silver plating                                                                       |
| Insulator | High insulation synthetic rubber resistant to oils and high temperatures in accordance with MIL-R-3065 |

Operating Temperature  
Insulation Resistance

-55°C to 125°C  
≥ 5 x 10<sup>9</sup> MR

| Mfrs. List No.    | Order Code | Rating | Mfrs. List No.  | Order Code | Rating |
|-------------------|------------|--------|-----------------|------------|--------|
| CM13106A10SL-3PNO | 483-597912 | A      | CM13102A10SL-3P | 483-623612 | A      |
| CM13106A10SL-4PNO | 483-598012 | A      | CM13102A10SL-4P | 483-624812 | A      |
| CM13106A14S-6PNO  | 483-599212 | I      | CM13102A14S-6P  | 483-625012 | I      |
| CM13106A16S-1PNO  | 483-600512 | A      | CM13102A16S-1P  | 483-626112 | A      |
| CM13106A18-1PNO   | 483-601712 | I      | CM13102A18-1P   | 483-627312 | I      |
| CM13106A20-A9PNO  | 483-602912 | I      | CM13102A20-A9P  | 483-628512 | I      |
| CM13106A20-A48PNO | 483-603012 | I      | CM13102A20-A48P | 483-629712 | I      |
| CM13106A22-2PNO   | 483-604212 | D      | CM13102A22-2P   | 483-630312 | D      |
| CM13106A22-14PNO  | 483-605412 | A      | CM13102A22-14P  | 483-631512 | A      |
| CM13106A22-19PNO  | 483-606612 | A      | CM13102A22-19P  | 483-632712 | A      |
| CM13106A22-22PNO  | 483-607812 | A      | CM13102A22-22P  | 483-633912 | A      |
| CM13106A24-2PNO   | 483-608012 | D      | CM13102A24-2P   | 483-634012 | D      |
| CM13106A28-21PNO  | 483-609112 | A      | CM13102A28-21P  | 483-635212 | A      |
| CM13106A10SL-3SNO | 483-610812 | A      | CM13102A10SL-3S | 483-636412 | A      |
| CM13106A10SL-4SNO | 483-611012 | A      | CM13102A10SL-4S | 483-637612 | A      |
| CM13106A14S-6SNO  | 483-612112 | I      | CM13102A14S-6S  | 483-638812 | I      |
| CM13106A16S-1SNO  | 483-613312 | A      | CM13102A16S-1S  | 483-639012 | A      |
| CM13106A18-1SNO   | 483-614512 | I      | CM13102A18-1S   | 483-640612 | I      |
| CM13106A20-A9SNO  | 483-615712 | I      | CM13102A20-A9S  | 483-641812 | I      |
| CM13106A20-A48SNO | 483-616912 | I      | CM13102A20-A48S | 483-642012 | I      |
| CM13106A22-2SNO   | 483-617012 | D      | CM13102A22-2S   | 483-643112 | D      |
| CM13106A22-14SNO  | 483-618212 | A      | CM13102A22-14S  | 483-644312 | A      |
| CM13106A22-19SNO  | 483-619412 | A      | CM13102A22-19S  | 483-645512 | A      |
| CM13106A22-22SNO  | 483-620012 | A      | CM13102A22-22S  | 483-646712 | A      |
| CM13106A24-2SNO   | 483-621212 | D      | CM13102A24-2S   | 483-647912 | D      |
| CM13106A28-21SNO  | 483-622412 | A      | CM13102A28-21S  | 483-648012 | A      |
| CM3106F10SL-3     | 483-649212 |        | CM3106F10SL-3   | 483-662512 |        |
| CM3106F10SL-4     | 483-650912 |        | CM3106F10SL-4   | 483-663712 |        |
| CM3106F14S-6      | 483-651012 |        | CM3106F14S-6    | 483-664912 |        |
| CM3106F16S-1      | 483-652212 |        | CM3106F16S-1    | 483-665012 |        |
| CM3106F18-1       | 483-653412 |        | CM3106F18-1     | 483-666212 |        |
| CM3106F20-A9      | 483-654612 |        | CM3106F20-A9    | 483-667412 |        |
| CM3106F20-A48     | 483-655812 |        | CM3106F20-A48   | 483-668612 |        |
| CM3106F22-2       | 483-656012 |        | CM3106F22-2     | 483-669812 |        |
| CM3106F22-14      | 483-657112 |        | CM3106F22-14    | 483-670412 |        |
| CM3106F22-19      | 483-658312 |        | CM3106F22-19    | 483-671612 |        |
| CM3106F22-22      | 483-659512 |        | CM3106F22-22    | 483-672812 |        |
| CM3106F24-2       | 483-660112 |        | CM3106F24-2     | 483-673012 |        |
| CM3106F28-21      | 483-661312 |        | CM3106F28-21    | 483-674112 |        |

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| Shell Size              | No. Contacts | Size Contacts   | Order Code | 1+    | 10+   | 25+   | 50+   | 250+  |
|-------------------------|--------------|-----------------|------------|-------|-------|-------|-------|-------|
| <b>Plug - Cable</b>     |              |                 |            |       |       |       |       |       |
| 22                      | 3            | 8               | 483-604212 | 25.34 | 21.54 | 20.78 | 19.77 | 17.27 |
| 22                      | 19           | 16              | 483-605412 | 21.00 | 17.85 | 17.22 | 16.38 | 14.32 |
| 10                      | 14           | 16              | 483-606612 | 22.81 | 19.39 | 18.70 | 17.79 | 15.55 |
| 10                      | 4            | 8               | 483-607812 | 26.96 | 22.92 | 22.11 | 21.03 | 18.38 |
| 10                      | 7            | 12              | 483-608012 | 20.88 | 17.75 | 17.12 | 16.29 | 14.24 |
| 10                      | 37           | 16              | 483-609112 | 30.86 | 26.23 | 25.31 | 24.07 | 21.05 |
| <b>Socket - Cable</b>   |              |                 |            |       |       |       |       |       |
| 10                      | 3            | 16              | 483-610812 | 11.39 | 9.68  | 9.34  | 8.88  | 7.76  |
| 10                      | 2            | 16              | 483-611012 | 10.60 | 9.01  | 8.69  | 8.27  | 7.23  |
| 14                      | 6            | 16              | 483-612112 | 14.32 | 12.17 | 11.74 | 11.17 | 9.76  |
| 16                      | 7            | 16              | 483-613312 | 18.86 | 16.03 | 15.47 | 14.71 | 12.85 |
| 18                      | 4            | 16              | 483-614512 | 19.35 | 16.45 | 15.87 | 15.09 | 13.20 |
| 20                      | 8            | 12              | 483-615712 | 23.54 | 20.01 | 19.30 | 18.36 | 16.05 |
| 10                      | 19           | 16              | 483-616912 | 28.38 | 24.12 | 23.27 | 22.14 | 19.35 |
| 22                      | 3            | 8               | 483-617012 | 31.43 | 26.72 | 25.77 | 24.52 | 21.42 |
| 22                      | 19           | 16              | 483-618212 | 25.81 | 21.94 | 21.16 | 20.13 | 17.61 |
| 10                      | 14           | 16              | 483-619412 | 27.05 | 22.99 | 22.18 | 21.10 | 18.44 |
| 10                      | 4            | 8               | 483-620012 | 35.09 | 29.83 | 28.77 | 27.37 | 23.92 |
| 24                      | 7            | 12              | 483-621212 | 23.44 | 19.92 | 19.22 | 18.28 | 15.98 |
| 10                      | 37           | 16              | 483-622412 | 41.01 | 34.86 | 33.63 | 31.99 | 27.97 |
| <b>Plug - Chassis</b>   |              |                 |            |       |       |       |       |       |
| 10                      | 3            | 16              | 483-623612 | 8.48  | 7.21  | 6.95  | 6.61  | 6.48  |
| 10                      | 2            | 16              | 483-624812 | 8.46  | 7.19  | 6.94  | 6.60  | 6.38  |
| 10                      | 6            | 16              | 483-625012 | 10.14 | 8.62  | 8.31  | 7.91  | 7.71  |
| 16                      | 7            | 16              | 483-626112 | 12.18 | 10.35 | 9.99  | 9.50  | 8.30  |
| 18                      | 4            | 16              | 483-627312 | 12.18 | 10.35 | 9.99  | 9.50  | 8.95  |
| 20                      | 8            | 12              | 483-628512 | 15.20 | 12.92 | 12.46 | 11.86 | 10.36 |
| 20                      | 19           | 16              | 483-629712 | 17.85 | 15.17 | 14.64 | 13.92 | 12.17 |
| 22                      | 3            | 8               | 483-630312 | 17.46 | 14.84 | 14.32 | 13.62 | 11.91 |
| 22                      | 19           | 16              | 483-631512 | 17.48 | 14.86 | 14.33 | 13.63 | 11.92 |
| 22                      | 14           | 16              | 483-632712 | 15.82 | 13.45 | 12.97 | 12.34 | 10.79 |
| 22                      | 4            | 8               | 483-633912 | 18.95 | 16.11 | 15.54 | 14.78 | 12.92 |
| 24                      | 7            | 12              | 483-634012 | 14.54 | 12.36 | 11.92 | 11.34 | 9.91  |
| 28                      | 37           | 16              | 483-635212 | 22.18 | 18.85 | 18.19 | 17.30 | 16.74 |
| <b>Socket - Chassis</b> |              |                 |            |       |       |       |       |       |
| 10                      | 3            | 16              | 483-636412 | 9.28  | 7.89  | 7.61  | 7.24  | 7.09  |
| 10                      | 2            | 16              | 483-637612 | 8.97  | 7.62  | 7.36  | 7.00  | 6.86  |
| 14                      | 6            | 16              | 483-638812 | 11.69 | 9.94  | 9.59  | 9.12  | 8.86  |
| 16                      | 7            | 16              | 483-639012 | 14.18 | 12.05 | 11.63 | 11.06 | 9.67  |
| 18                      | 4            | 16              | 483-640612 | 15.63 | 13.29 | 12.82 | 12.19 | 10.65 |
| 20                      | 8            | 12              | 483-641812 | 17.57 | 14.93 | 14.41 | 13.70 | 11.98 |
| 20                      | 19           | 16              | 483-642012 | 22.69 | 19.29 | 18.61 | 17.70 | 15.47 |
| 22                      | 3            | 8               | 483-643112 | 24.14 | 20.52 | 19.79 | 18.83 | 16.45 |
| 22                      | 19           | 16              | 483-644312 | 22.49 | 19.12 | 18.44 | 17.54 | 15.33 |
| 22                      | 14           | 16              | 483-645512 | 21.50 | 18.28 | 17.63 | 16.77 | 14.67 |
| 22                      | 4            | 8               | 483-646712 | 27.72 | 23.56 | 22.73 | 21.62 | 18.89 |
| 24                      | 7            | 12              | 483-647912 | 17.15 | 14.58 | 14.06 | 13.38 | 11.70 |
| 28                      | 37           | 16              | 483-648012 | 37.84 | 32.16 | 31.03 | 29.52 | 25.80 |
| <b>Accessories</b>      |              |                 |            |       |       |       |       |       |
| 10                      | 3            | Clamp, Straight | 483-649212 | 7.16  | 6.09  | 5.87  | 5.58  | 4.88  |
| 10                      | 2            | Clamp, Straight | 483-650912 | 7.16  | 6.09  | 5.87  | 5.58  | 4.88  |
| 14                      | 6            | Clamp, Straight | 483-651012 | 6.68  | 5.68  | 5.48  | 5.21  | 4.98  |
| 16                      | 7            | Clamp, Straight | 483-652212 | 8.72  | 7.41  | 7.15  | 6.80  | 5.94  |
| 18                      | 10           | Clamp, Straight | 483-653412 | 9.43  | 8.02  | 7.73  | 7.36  | 6.42  |
| 20                      | 9            | Clamp, Straight | 483-654612 | 9.20  | 7.82  | 7.54  | 7.18  | 6.27  |
| 20                      | 19           | Clamp, Straight | 483-655812 | 9.85  | 8.37  | 8.08  | 7.68  | 6.71  |
| 22                      | 19           | Clamp, Straight | 483-657112 | 11.21 | 9.53  | 9.19  | 8.74  | 7.65  |
| 22                      | 14           | Clamp, Straight | 483-658312 | 10.24 | 8.70  | 8.40  | 7.99  | 6.98  |
| 22                      | 4            | Clamp, Straight | 483-659512 | 9.05  | 7.69  | 7.42  | 7.06  | 6.17  |
| 24                      | 7            | Clamp, Straight | 483-660112 | 9.91  | 8.42  | 8.13  | 7.73  | 7.58  |
| 28                      | 37           | Clamp, Straight | 483-661312 | 12.59 | 10.70 | 10.32 | 9.82  | 8.59  |
| 10                      | 3            | Clamp, Straight | 483-662512 | 13.81 | 11.74 | 11.32 | 10.77 | 9.41  |
| 10                      | 2            | Clamp, Straight | 483-663712 | 13.40 | 11.39 | 10.99 | 10.45 | 9.14  |
| 14                      | 6            | Clamp, Straight | 483-664912 | 13.47 | 11.45 | 11.05 | 10.51 | 9.18  |
| 16                      | 7            | Clamp, Straight | 483-665012 | 19.35 | 16.45 | 15.87 | 15.09 | 13.20 |
| 18                      | 10           | Clamp, Straight | 483-666212 | 17.07 | 14.51 | 14.00 | 13.31 | 11.64 |
| 20                      | 9            | Clamp, Straight | 483-667412 | 17.00 | 14.45 | 13.94 | 13.26 | 11.59 |
| 20                      | 19           | Clamp, Straight | 483-668612 | 17.77 | 15.10 | 14.57 | 13.86 | 12.11 |
| 22                      | 3            | Clamp, Straight | 483-669812 | 18.07 | 15.36 | 14.82 | 14.09 | 12.32 |
| 22                      | 19           | Clamp, Straight | 483-670412 | 18.89 | 16.06 | 15.49 | 14.73 | 12.88 |
| 22                      | 14           | Clamp, Straight | 483-671612 | 29.57 | 25.13 | 24.25 | 23.06 | 20.17 |
| 22                      | 4            | Clamp, Straight | 483-672812 | 27.95 | 23.76 | 22.92 | 21.80 | 19.06 |
| 24                      | 7            | Clamp, Straight | 483-673012 | 21.30 | 18.11 | 17.47 | 16.61 | 14.53 |
| 28                      | 37           | Clamp, Straight | 483-674112 | 22.69 | 19.29 | 18.61 | 17.70 | 15.47 |

## Multipole Circular - continued

### MIL-C-5105 Series - Nickel

#### Miniature Bayonet Lock Connectors

The CM1 series of Nickel Plated connectors derives from the MIL-C-5015 standard, but is different because of its bayonet coupling, which reduces the coupling time and makes the coupling easier when the connector is in an awkward position. Another advantage is the resistance to vibrations because of the three stainless steel wear pins located near the end of the bayonet track of the receptacle.

This series uses the same inserts as the MIL-C-5015 and the VG 95234 and is interchangeable with the latter.

| Mfrs. List No.     | Order Code | Mfrs. List No.   | Order Code |
|--------------------|------------|------------------|------------|
| CM13106A10SL-3PNON | 483-684412 | CM13102A10SL-3PN | 483-690012 |
| CM13106A10SL-4PNON | 483-685612 | CM13102A10SL-4PN | 483-691112 |
| CM13106A14S-6PNON  | 483-686812 | CM13102A14S-6PN  | 483-692312 |
| CM13106A10SL-3SNON | 483-687012 | CM13102A10SL-3SN | 483-693512 |
| CM13106A10SL-4SNNO | 483-688112 | CM13102A10SL-4SN | 483-694712 |
| CM13106A14S-6SNON  | 483-689312 | CM13102A14S-6SN  | 483-695912 |
| CM3106F10SL-3N     | 483-696012 | CM3108F10SL-3N   | 483-699612 |
| CM3106F10SL-4N     | 483-697212 | CM3108F10SL-4N   | 483-700912 |
| CM3106F14S-6N      | 483-698412 | CM3108F14S-6N    | 483-701012 |

#### Specifications

|                       |                |
|-----------------------|----------------|
| Contacts              | Size 20        |
| Current Rating        | 7.5A           |
| Wire Range            | 20 to 24 AWG   |
| Voltage Rating AC     | 600V rms       |
| Voltage Rating DC     | 700V           |
| Test Voltage AC       | 1500V          |
| Operating Temperature | -55°C to 125°C |

#### Materials

|          |                                                                |
|----------|----------------------------------------------------------------|
| Housing  | Aluminium alloy according to QQ-A-591                          |
| Contacts | Copper alloy, Gold plated over nickel                          |
| Inserts  | High insulation synthetic rubber in accordance with MIL-R-3065 |

Insulation Resistance

≥ 5 x 10<sup>3</sup> MR

335236

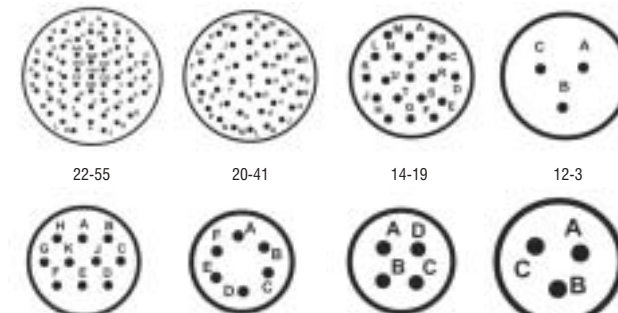
| ShellNo.<br>Size        | Contact<br>ContactsSize | Order Code        | 1+    | 10+   | 25+   | 50+   | 250+ |
|-------------------------|-------------------------|-------------------|-------|-------|-------|-------|------|
| <b>Plug - Cable</b>     |                         |                   |       |       |       |       |      |
| 10 2                    | 16                      | <b>483-684412</b> | 10.79 | 9.17  | 8.85  | 8.42  | 7.36 |
| 10 3                    | 16                      | <b>483-685612</b> | 10.22 | 8.69  | 8.38  | 7.97  | 6.97 |
| 14 6                    | 16                      | <b>483-686812</b> | 12.26 | 10.42 | 10.05 | 9.56  | 8.36 |
| <b>Socket - Cable</b>   |                         |                   |       |       |       |       |      |
| 10 2                    | 16                      | <b>483-688112</b> | 10.60 | 9.01  | 8.69  | 8.27  | 7.23 |
| 10 3                    | 16                      | <b>483-687012</b> | 11.39 | 9.68  | 9.34  | 8.88  | 7.76 |
| 14 6                    | 16                      | <b>483-689312</b> | 14.32 | 12.17 | 11.74 | 11.17 | 9.76 |
| <b>Plug - Chassis</b>   |                         |                   |       |       |       |       |      |
| 10 2                    | 16                      | <b>483-691112</b> | 8.46  | 7.19  | 6.94  | 6.60  | 6.38 |
| 10 3                    | 16                      | <b>483-690012</b> | 8.48  | 7.21  | 6.95  | 6.61  | 6.48 |
| 10 6                    | 16                      | <b>483-692312</b> | 10.14 | 8.62  | 8.31  | 7.91  | 7.71 |
| <b>Socket - Chassis</b> |                         |                   |       |       |       |       |      |
| 10 2                    | 16                      | <b>483-694712</b> | 8.97  | 7.62  | 7.36  | 7.00  | 6.86 |
| 10 3                    | 16                      | <b>483-693512</b> | 9.28  | 7.89  | 7.61  | 7.24  | 7.09 |
| 14 6                    | 16                      | <b>483-695912</b> | 11.69 | 9.94  | 9.59  | 9.12  | 8.86 |
| <b>Accessories</b>      |                         |                   |       |       |       |       |      |
| 10 3                    | Clamp, Straight         | <b>483-696012</b> | 7.16  | 6.09  | 5.87  | 5.58  | 4.88 |
| 10 4                    | Clamp, Straight         | <b>483-697212</b> | 7.16  | 6.09  | 5.87  | 5.58  | 4.88 |
| 14 6                    | Clamp, Straight         | <b>483-698412</b> | 6.68  | 5.68  | 5.48  | 5.21  | 4.98 |
| 10 3                    | Clamp, Straight         | <b>483-699612</b> | 13.81 | 11.74 | 11.32 | 10.77 | 9.41 |
| 10 4                    | Clamp, Straight         | <b>483-700912</b> | 13.40 | 11.39 | 10.99 | 10.45 | 9.14 |
| 14 6                    | Clamp, Straight         | <b>483-701012</b> | 13.47 | 11.45 | 11.05 | 10.51 | 9.18 |

### MIL-C-26482 Series 1

#### Miniature Sealed Connectors



MIL-C-26482 connectors offer high density contact arrangements in a miniature circular shell. Crimp and solder styles are available which are interchangeable with all MIL-C-26482 style connectors.



| 12-10                    | 10-6                     | 8-4                      | 8-3                      |
|--------------------------|--------------------------|--------------------------|--------------------------|
| MS3126F22-55S=390-427112 | MS3122E10-6P=390-450712  | MS3112E12-10S=390-479912 | MS3112E10-6S=390-481712  |
| MS3126F20-41S=390-429512 | MS3116F8-4S=390-451912   | MS3112E10-6S=390-481712  | MS3112E8-4P=390-468412   |
| MS3126F14-19S=390-431312 | MS3116F8-3S=390-453212   | MS3112E8-4P=390-468412   | MS3112E8-3P=390-470212   |
| MS3126F12-3S=390-433712  | MS3116F22-55S=390-455612 | MS3112E22-55P=390-472612 | MS3112E20-41P=390-474012 |
| MS3126F12-10S=390-435012 | MS3116F20-41S=390-457012 | MS3112E20-41P=390-474012 | MS3112E14-19P=390-476312 |
| MS3126F10-6S=390-437412  | MS3116F14-19S=390-459312 | MS3112E14-19P=390-476312 | MS3112E12-3P=390-478712  |
| MS3126F22-55P=390-428312 | MS3116F12-3S=390-461112  | MS3112E12-3P=390-478712  | MS3112E12-10P=390-480512 |
| MS3126F20-41P=390-430112 | MS3116F12-10S=390-463512 | MS3112E12-10P=390-480512 | MS3112E10-6P=390-482912  |
| MS3126F14-19P=390-432512 | MS3116F10-6S=390-465912  | MS3112E10-6P=390-482912  | AF8=890-37612            |
| MS3126F12-3P=390-434912  | MS3116F8-4P=390-452012   | MS3116F8-4P=390-452012   | M22520/1-2=390-483012    |
| MS3126F12-10P=390-436212 | MS3116F8-3P=390-454412   | MS3116F8-3P=390-454412   | MS24256A16=390-484212    |
| MS3126F10-6P=390-438612  | MS3116F22-55P=390-456812 | MS3116F22-55P=390-456812 | MS24256A20=390-485412    |
| MS3122E22-55S=390-439812 | MS3116F20-41P=390-458112 | MS3116F20-41P=390-458112 | MS24256R16=390-486612    |
| MS3122E20-41S=390-441612 | MS3116F14-19P=390-460012 | MS3116F14-19P=390-460012 | MS24256R20=390-487812    |
| MS3122E14-19S=390-443012 | MS3116F12-10P=390-464712 | MS3116F12-10P=390-464712 | KPSE-KIT=390-490812      |
| MS3122E12-3S=390-445312  | MS3116F12-10P=390-464712 | MS3116F12-10P=390-464712 | 225-1011-000=390-488012  |
| MS3122E12-10S=390-447712 | MS3116F10-6P=390-466012  | MS3116F10-6P=390-466012  | 225-1012-000=390-489112  |
| MS3122E10-6S=390-449012  | MS3112E8-4S=390-467212   | MS3112E8-4S=390-467212   | 030-9032-003=390-491012  |
| MS3122E22-55P=390-440412 | MS3112E8-3S=390-469612   | MS3112E8-3S=390-469612   | 031-9095-003=390-492112  |
| MS3122E20-41P=390-442812 | MS3112E22-55S=390-471412 | MS3112E22-55S=390-471412 | 030-9036-000=390-493312  |
| MS3122E14-19P=390-444112 | MS3112E20-41S=390-473812 | MS3112E20-41S=390-473812 | 031-9074-002=390-494512  |
| MS3122E12-3P=390-446512  | MS3112E14-19S=390-475112 | MS3112E14-19S=390-475112 |                          |
| MS3122E12-10P=390-448912 | MS3112E12-3S=390-477512  | MS3112E12-3S=390-477512  |                          |

#### Specification

|                       |                |
|-----------------------|----------------|
| Current Rating        | 22A            |
| Wire Range            | 16 to 20 AWG   |
| Voltage Rating AC     | 600V rms       |
| Voltage Rating DC     | 850V           |
| Mating Cycles         | 500            |
| Operating Temperature | -55°C to 125°C |

#### Materials

|           |                                            |
|-----------|--------------------------------------------|
| Housing   | Aluminium Alloy Olive Drab Chromate finish |
| Contacts  | Copper Alloy, Gold MIL-G-45204 plated      |
| Insulator | Neoprene                                   |

#### Approvals

MIL-C-26482 VG 95 328

233516

| Shell No.<br>Size                                       | Contact<br>Contacts | Size              | Order Code | 1+    | 10+   | 25+ |
|---------------------------------------------------------|---------------------|-------------------|------------|-------|-------|-----|
| <b>Straight Plug - Socket Contacts - Crimp</b>          |                     |                   |            |       |       |     |
| 22 55                                                   | 20                  | <b>390-427112</b> | 43.80      | 38.30 | 36.65 |     |
| 20 41                                                   | 20                  | <b>390-429512</b> | 38.79      | 33.91 | 31.37 |     |
| 14 19                                                   | 20                  | <b>390-431312</b> | 27.45      | 26.85 | 24.97 |     |
| 12 3                                                    | 16                  | <b>390-433712</b> | 23.55      | 20.59 | 19.05 |     |
| 12 10                                                   | 20                  | <b>390-435012</b> | 23.18      | 20.26 | 18.74 |     |
| 10 6                                                    | 20                  | <b>390-437412</b> | 21.17      | 18.51 | 17.13 |     |
| <b>Straight Plug - Pin Contacts - Crimp</b>             |                     |                   |            |       |       |     |
| 22 55                                                   | 20                  | <b>390-428312</b> | 39.50      | 36.53 | 29.97 |     |
| 20 41                                                   | 20                  | <b>390-430112</b> | 40.28      | 35.21 | 32.57 |     |
| 14 19                                                   | 20                  | <b>390-432512</b> | 27.27      | 23.84 | 22.05 |     |
| 12 3                                                    | 16                  | <b>390-434912</b> | 22.12      | 19.35 | 17.89 |     |
| 12 10                                                   | 20                  | <b>390-436212</b> | 23.47      | 20.52 | 18.97 |     |
| 10 6                                                    | 20                  | <b>390-438612</b> | 21.46      | 18.76 | 17.36 |     |
| <b>Panel Mount Receptacle - Socket Contacts - Crimp</b> |                     |                   |            |       |       |     |
| 22 55                                                   | 20                  | <b>390-439812</b> | 33.57      | 32.56 | 31.25 |     |
| 20 41                                                   | 20                  | <b>390-441612</b> | 26.89      | 25.36 | 24.53 |     |
| 14 19                                                   | 20                  | <b>390-443012</b> | 19.90      | 17.40 | 16.09 |     |
| 12 3                                                    | 16                  | <b>390-445312</b> | 16.21      | 12.76 | 11.80 |     |
| 12 10                                                   | 20                  | <b>390-447712</b> | 17.11      | 14.97 | 13.84 |     |
| 10 6                                                    | 20                  | <b>390-449012</b> | 16.21      | 14.17 | 13.11 |     |



| Shell                                             | No. | Contact | Price Each |        |             |
|---------------------------------------------------|-----|---------|------------|--------|-------------|
| Panel Mount Receptacle - Pin Contacts - Crimp     |     |         |            |        |             |
| 22                                                | 55  | 20      | 390-440412 | 35.51  | 31.05 28.71 |
| 20                                                | 41  | 20      | 390-442812 | 39.56  | 34.61 22.62 |
| 14                                                | 19  | 20      | 390-444112 | 20.65  | 18.05 16.71 |
| 12                                                | 3   | 16      | 390-446512 | 14.66  | 12.82 11.85 |
| 12                                                | 10  | 20      | 390-448912 | 17.57  | 15.36 14.21 |
| 10                                                | 6   | 20      | 390-450712 | 16.61  | 14.52 13.43 |
| Straight Plug - Socket Contacts - Solder          |     |         |            |        |             |
| 8                                                 | 4   | 20      | 390-451912 | 23.60  | 20.63 19.09 |
| 8                                                 | 3   | 20      | 390-453212 | 23.09  | 20.19 18.67 |
| 22                                                | 55  | 20      | 390-455612 | 48.92  | 45.77 44.51 |
| 20                                                | 41  | 20      | 390-457012 | 78.89  | 69.04 45.12 |
| 14                                                | 19  | 20      | 390-459312 | 28.31  | 24.75 22.90 |
| 12                                                | 3   | 16      | 390-461112 | 21.91  | 20.15 19.45 |
| 12                                                | 10  | 20      | 390-463512 | 22.82  | 21.50 19.69 |
| 10                                                | 6   | 20      | 390-465912 | 35.86  | 31.37 20.51 |
| Straight Plug - Pin Contacts - Solder             |     |         |            |        |             |
| 8                                                 | 4   | 20      | 390-452012 | 40.90  | 35.79 23.39 |
| 8                                                 | 3   | 20      | 390-454412 | 39.94  | 34.95 22.84 |
| 22                                                | 55  | 20      | 390-456812 | 45.93  | 40.15 37.15 |
| 20                                                | 41  | 20      | 390-458112 | 79.62  | 69.66 45.53 |
| 14                                                | 19  | 20      | 390-460012 | 26.78  | 23.42 21.65 |
| 12                                                | 3   | 16      | 390-462312 | 18.66  | 17.95 17.66 |
| 12                                                | 10  | 20      | 390-464712 | 23.11  | 20.20 18.69 |
| 10                                                | 6   | 20      | 390-466012 | 34.70  | 30.36 19.84 |
| Panel Mount Receptacle - Socket Contacts - Solder |     |         |            |        |             |
| 8                                                 | 4   | 20      | 390-467212 | 13.85  | 12.11 11.20 |
| 8                                                 | 3   | 20      | 390-469612 | 11.11  | 9.71 8.99   |
| 22                                                | 55  | 20      | 390-471412 | 68.58  | 60.00 39.22 |
| 20                                                | 41  | 20      | 390-473812 | 55.57  | 48.62 31.78 |
| 14                                                | 19  | 20      | 390-475112 | 18.99  | 16.60 15.36 |
| 12                                                | 3   | 16      | 390-477512 | 23.51  | 20.57 13.45 |
| 12                                                | 10  | 20      | 390-479912 | 14.32  | 12.52 11.58 |
| 10                                                | 6   | 20      | 390-481712 | 12.58  | 11.00 10.17 |
| Panel Mount Receptacle - Pin Contacts - Solder    |     |         |            |        |             |
| 8                                                 | 4   | 20      | 390-468412 | 21.84  | 19.11 12.49 |
| 8                                                 | 3   | 20      | 390-470212 | 20.90  | 18.28 11.95 |
| 22                                                | 55  | 20      | 390-472612 | 61.54  | 53.85 35.20 |
| 20                                                | 41  | 20      | 390-474012 | 52.68  | 46.09 30.13 |
| 14                                                | 19  | 20      | 390-476312 | 16.77  | 14.67 13.56 |
| 12                                                | 3   | 16      | 390-478712 | 20.17  | 17.65 11.54 |
| 12                                                | 10  | 20      | 390-480512 | 13.62  | 11.91 11.02 |
| 10                                                | 6   | 20      | 390-482912 | 12.13  | 10.61 9.82  |
| Tools                                             |     |         |            |        |             |
|                                                   |     |         | Order Code | 1+     |             |
| Crimp Tool                                        |     |         | 890-37612  | 234.05 |             |
| Positioner                                        |     |         | 390-483012 | 83.81  |             |
| Insertion Tool Size 16                            |     |         | 390-484212 | 23.01  |             |
| Insertion Tool Size 20                            |     |         | 390-485412 | 23.01  |             |
| Extraction Tool Size 16                           |     |         | 390-486612 | 30.49  |             |
| Extraction Tool Size 20                           |     |         | 390-487812 | 30.49  |             |
| KPSE Complete Crimp Kit                           |     |         | 390-490812 | 443.85 |             |
| Wire Hole Fillers                                 |     |         |            |        |             |
|                                                   |     |         | Order Code | 1+     | 50+         |
| Size 16                                           |     |         | 390-488012 | 0.12   | 0.105 0.095 |
| Size 20                                           |     |         | 390-489112 | 0.045  | 0.04 0.035  |
| Crimp Contacts                                    |     |         |            |        |             |
|                                                   |     |         | Order Code | 1+     | 5+          |
| Size 16 Pin                                       |     |         | 390-491012 | 0.48   | 0.44 0.40   |
| Size 16 Socket                                    |     |         | 390-492112 | 0.86   | 0.79 0.72   |
| Size 20 Pin                                       |     |         | 390-493312 | 0.34   | 0.31 0.28   |
| Size 20 Socket                                    |     |         | 390-494512 | 0.46   | 0.42 0.38   |

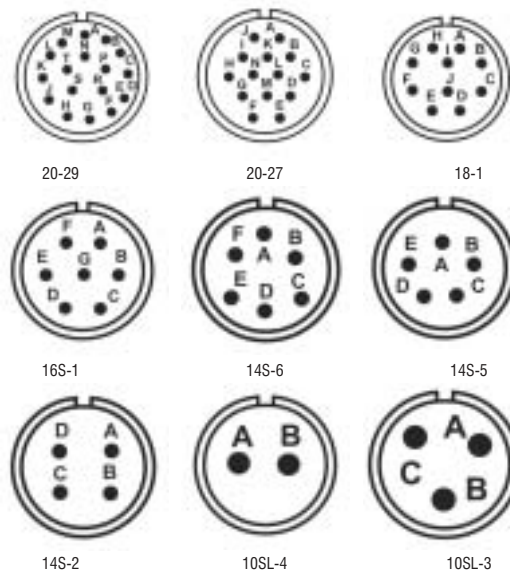
## MIL-C-5015 Connectors

Cannon  
ITT Industries  
Exponent Inc. USA

MIL-C-5015 connectors are designed and manufactured for extreme conditions but are ideally suited to commercial applications where a low cost rugged connector is required.

- Completely sealed to withstand moisture, condensation, vibration and flashover
- Tinned solder pot termination

Typical applications include aircraft, industrial equipment, medical equipment, transportation, communication, robotics and telecommunications

**Specification**

|                       |                |
|-----------------------|----------------|
| Current Rating        | 13A            |
| Insulation Resistance | ≥5000MΩ        |
| Voltage Rating AC     | 200V rms       |
| Voltage Rating DC     | 250V           |
| Mating Cycles         | 100            |
| Operating Temperature | -55°C to 125°C |
| Wire Range            | 16 to 20 AWG   |

**Materials**

|                    |                                            |
|--------------------|--------------------------------------------|
| Housing            | Aluminium Alloy Olive Drab Chromate finish |
| Contacts (Size 16) | Brass, Gold MIL-G-45204 plated             |
| Insulator          | Neoprene                                   |

MS3106F straight plugs mate with MS3102 receptacles

MS3101F cable connecting plugs are used for cable extension requirements where mounting provisions are unnecessary and mate with MS3106F plugs

Mfrs. List No.

|                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| MS3106F20-29S=390-501912  | MS3102R20-29S=390-519612  | MS3101F20-29S=390-537812  |
| MS3106F20-27S=390-503212  | MS3102R20-27S=390-521412  | MS3101F20-27S=390-539112  |
| MS3106F18-1S=390-505612   | MS3102R18-1S=390-523812   | MS3101F16S-1S=390-543312  |
| MS3106F16S-1S=390-507012  | MS3102R16S-1S=390-525112  | MS3101F16S-1S=390-543312  |
| MS3106F14S-6S=390-509312  | MS3102R14S-6S=390-527512  | MS3101F14S-6S=390-545712  |
| MS3106F14S-5S=390-511112  | MS3102R14S-5S=390-529912  | MS3101F14S-5S=390-547012  |
| MS3106F14S-2S=390-513512  | MS3102R14S-2S=390-531712  | MS3101F14S-2S=390-549412  |
| MS3106F10SL-4S=390-515912 | MS3102R10SL-4S=390-533012 | MS3101F10SL-4S=390-551212 |
| MS3106F10SL-3S=390-517212 | MS3102R10SL-3S=390-535412 | MS3101F10SL-3S=390-553612 |
| MS3106F20-29P=390-502012  | MS3102R20-29P=390-520212  | MS3101F20-29P=390-538012  |
| MS3106F20-27P=390-504412  | MS3102R20-27P=390-522612  | MS3101F20-27P=390-540812  |
| MS3106F18-1P=390-506812   | MS3102R18-1P=390-524012   | MS3101F16S-1P=390-542112  |
| MS3106F16S-1P=390-508112  | MS3102R16S-1P=390-526312  | MS3101F16S-1P=390-544512  |
| MS3106F14S-6P=390-510012  | MS3102R14S-6P=390-528712  | MS3101F14S-6P=390-546912  |
| MS3106F14S-5P=390-512312  | MS3102R14S-5P=390-530512  | MS3101F14S-5P=390-548212  |
| MS3106F14S-2P=390-514712  | MS3102R14S-2P=390-532912  | MS3101F14S-2P=390-550012  |
| MS3106F10SL-4P=390-516012 | MS3102R10SL-4P=390-534212 | MS3101F10SL-4P=390-552412 |
| MS3106F10SL-3P=390-518412 | MS3102R10SL-3P=390-536612 | MS3101F10SL-3P=390-554812 |

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## Multipole Circular - continued

### MIL-C-5015 Connectors - continued

| Shell Size                                                                         | No. Contacts | Order Code | 1+    | 5+    | 10+   | 50+   |
|------------------------------------------------------------------------------------|--------------|------------|-------|-------|-------|-------|
| <b>Free Plug - Socket Contacts</b>                                                 |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-501912 | 33.91 | 29.66 | 27.42 | 24.68 |
| 20                                                                                 | 14           | 390-503212 | 31.19 | 27.27 | 25.23 | 22.71 |
| 18                                                                                 | 10           | 390-505612 | 26.76 | 23.40 | 21.65 | 19.49 |
| 16                                                                                 | 7            | 390-507012 | 26.76 | 23.40 | 21.65 | 19.49 |
| 14                                                                                 | 6            | 390-509312 | 17.68 | 15.46 | 14.31 | 12.88 |
| 14                                                                                 | 5            | 390-511112 | 16.86 | 14.74 | 13.63 | 12.27 |
| 14                                                                                 | 4            | 390-513512 | 16.03 | 14.02 | 12.96 | 11.67 |
| 10                                                                                 | 2            | 390-515912 | 14.07 | 12.31 | 11.38 | 10.25 |
| 10                                                                                 | 3            | 390-517212 | 14.93 | 13.06 | 12.07 | 10.87 |
| <b>Free Plug - Pin Contacts</b>                                                    |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-502012 | 28.52 | 24.94 | 23.06 | 20.76 |
| 20                                                                                 | 14           | 390-504412 | 26.59 | 23.25 | 21.50 | 19.35 |
| 18                                                                                 | 10           | 390-506812 | 22.91 | 20.03 | 18.53 | 16.68 |
| 16                                                                                 | 7            | 390-508112 | 19.98 | 17.47 | 16.16 | 14.55 |
| 14                                                                                 | 6            | 390-510012 | 16.27 | 14.23 | 13.16 | 11.85 |
| 14                                                                                 | 5            | 390-512312 | 15.65 | 13.68 | 12.65 | 11.39 |
| 14                                                                                 | 4            | 390-514712 | 15.02 | 13.13 | 12.14 | 10.93 |
| 10                                                                                 | 2            | 390-516012 | 13.59 | 11.88 | 10.99 | 9.90  |
| 10                                                                                 | 3            | 390-518412 | 14.20 | 12.42 | 11.49 | 10.35 |
| <b>Panel Mount Receptacle - Socket Contacts</b>                                    |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-519612 | 22.84 | 19.97 | 18.47 | 16.63 |
| 20                                                                                 | 14           | 390-521412 | 20.07 | 17.55 | 16.23 | 14.61 |
| 18                                                                                 | 10           | 390-523812 | 15.89 | 13.89 | 12.85 | 11.57 |
| 16                                                                                 | 7            | 390-525112 | 11.09 | 9.70  | 8.97  | 8.08  |
| 14                                                                                 | 6            | 390-527512 | 9.96  | 8.71  | 8.06  | 7.26  |
| 14                                                                                 | 5            | 390-529912 | 9.13  | 7.99  | 7.39  | 6.66  |
| 14                                                                                 | 4            | 390-531712 | 8.29  | 7.25  | 6.71  | 6.04  |
| 10                                                                                 | 2            | 390-533012 | 7.12  | 6.22  | 5.76  | 5.19  |
| 10                                                                                 | 3            | 390-535412 | 7.96  | 6.97  | 6.44  | 5.80  |
| <b>Panel Mount Receptacle - Pin Contacts</b>                                       |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-520212 | 17.42 | 15.23 | 14.09 | 12.69 |
| 20                                                                                 | 14           | 390-522612 | 15.49 | 13.54 | 12.53 | 11.28 |
| 18                                                                                 | 10           | 390-524012 | 12.05 | 10.53 | 9.74  | 8.77  |
| 16                                                                                 | 7            | 390-526312 | 9.42  | 8.24  | 7.62  | 6.86  |
| 14                                                                                 | 6            | 390-528712 | 8.55  | 7.47  | 6.92  | 6.23  |
| 14                                                                                 | 5            | 390-530512 | 7.93  | 6.94  | 6.42  | 5.78  |
| 14                                                                                 | 4            | 390-532912 | 7.31  | 6.39  | 5.91  | 5.32  |
| 10                                                                                 | 2            | 390-534212 | 6.64  | 5.80  | 5.37  | 4.84  |
| 10                                                                                 | 3            | 390-536612 | 12.66 | 11.08 | 7.24  | 6.52  |
| <b>Cable Connector Plug (Receptacle with no mounting flange) - Socket Contacts</b> |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-537812 | 44.39 | 38.84 | 25.38 | 22.85 |
| 20                                                                                 | 14           | 390-539112 | 42.95 | 37.58 | 24.56 | 22.11 |
| 18                                                                                 | 10           | 390-541012 | 26.48 | 23.15 | 21.41 | 19.27 |
| 16                                                                                 | 7            | 390-543312 | 22.18 | 19.39 | 17.94 | 16.15 |
| 14                                                                                 | 6            | 390-545712 | 18.93 | 16.55 | 15.30 | 13.77 |
| 14                                                                                 | 5            | 390-547012 | 18.10 | 15.83 | 14.64 | 13.18 |
| 14                                                                                 | 4            | 390-549412 | 17.25 | 15.08 | 13.95 | 12.56 |
| 10                                                                                 | 2            | 390-551212 | 15.84 | 13.85 | 12.82 | 11.54 |
| 10                                                                                 | 3            | 390-553612 | 16.68 | 14.59 | 13.49 | 12.15 |
| <b>Cable Connector Plug (Receptacle with no mounting flange) - Pin Contacts</b>    |              |            |       |       |       |       |
| 20                                                                                 | 17           | 390-538012 | 47.03 | 41.15 | 26.90 | 24.21 |
| 20                                                                                 | 14           | 390-540812 | 45.13 | 39.49 | 25.81 | 23.23 |
| 18                                                                                 | 10           | 390-542112 | 20.48 | 17.91 | 16.57 | 14.92 |
| 16                                                                                 | 7            | 390-544512 | 20.48 | 17.91 | 16.65 | 14.99 |
| 14                                                                                 | 6            | 390-546912 | 17.53 | 15.33 | 14.17 | 12.76 |
| 14                                                                                 | 5            | 390-548212 | 16.92 | 14.79 | 13.68 | 12.32 |
| 14                                                                                 | 4            | 390-550012 | 16.29 | 14.24 | 13.17 | 11.86 |
| 10                                                                                 | 2            | 390-552412 | 15.32 | 13.39 | 13.17 | 11.86 |
| 10                                                                                 | 3            | 390-554812 | 15.96 | 13.95 | 12.91 | 11.62 |

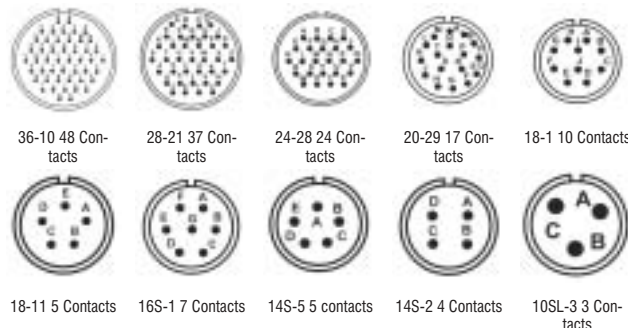
### CA-Bayonet Series MIL-C-5015

#### Reverse Bayonet Lock



Derived from MIL-C-5015 but uses a positive, quick mating 3-point reverse bayonet lock coupling system. These connectors share the same shell dimensions and contact layouts as MIL-C-5015 threaded connectors but the series are not interchangeable. Completely sealed to withstand moisture, condensation, vibration and flashover across a broad range of wire diameters.

- Allows mating and unmating with simple 120° rotation
- Eliminates cross threading
- Easier mating in cold conditions and confined spaces



| Specification         | Size 16 Contacts | Size 12 Contacts |
|-----------------------|------------------|------------------|
| Current Rating        | 22A              | 41A              |
| Wire Range            | 16 to 20 AWG     | 12 to 14 AWG     |
| Voltage Rating AC     | 200V rms         |                  |
| Voltage Rating DC     | 250V             |                  |
| Mating Cycles         | 2000             |                  |
| Operating Temperature | -55°C to 125°C   |                  |

| Materials |                                            |
|-----------|--------------------------------------------|
| Housing   | Aluminium Alloy Olive Drab Chromate finish |
| Contacts  | Copper alloy, Gold plated                  |
| Insulator | Neoprene                                   |

|                           |                            |                            |
|---------------------------|----------------------------|----------------------------|
| CA3106E36-10SB=390-576712 | CA3106E14S-5SB=390-590112  | CA3102E20-29PB=390-603612  |
| CA3106E36-10PB=390-577912 | CA3106E14S-5PB=390-591312  | CA3102E18-1SB=390-604812   |
| CA3106E28-21SB=390-578012 | CA3106E14S-2SB=390-592512  | CA3102E18-1PB=390-605012   |
| CA3106E28-21PB=390-579212 | CA3106E14S-2PB=390-593712  | CA3102E18-11SB=390-606112  |
| CA3106E24-28SB=390-580912 | CA3106E10SL-3SB=390-594912 | CA3102E18-11PB=390-607312  |
| CA3106E24-28PB=390-581012 | CA3106E10SL-3PB=390-595012 | CA3102E16S-1SB=390-608512  |
| CA3106E20-29SB=390-582212 | CA3102E36-10SB=390-596212  | CA3102E16S-1PB=390-609712  |
| CA3106E20-29PB=390-583412 | CA3102E36-10PB=390-597412  | CA3102E14S-5SB=390-610312  |
| CA3106E18-1SB=390-584612  | CA3102E28-21SB=390-598612  | CA3102E14S-5PB=390-611512  |
| CA3106E18-1PB=390-585812  | CA3102E28-21PB=390-599812  | CA3102E14S-2SB=390-612712  |
| CA3106E18-11SB=390-586012 | CA3102E24-28SB=390-600012  | CA3102E14S-2PB=390-613912  |
| CA3106E18-11PB=390-587112 | CA3102E24-28PB=390-601212  | CA3102E10SL-3SB=390-614012 |
| CA3106E16S-1SB=390-588312 | CA3102E20-29SB=390-602412  |                            |
| CA3106E16S-1PB=390-589512 |                            |                            |

233518

| Shell Size                                            | No. Contacts | Contact Size | Order Code | 1+    | 10+   | 25+   |
|-------------------------------------------------------|--------------|--------------|------------|-------|-------|-------|
| <b>Straight Plug - 3106 - Socket Contacts</b>         |              |              |            |       |       |       |
| 36                                                    | 48           | 16           | 390-576712 | 80.74 | 70.59 | 65.30 |
| 28                                                    | 37           | 16           | 390-578012 | 61.20 | 53.52 | 49.50 |
| 24                                                    | 24           | 16           | 390-580912 | 26.75 | 23.39 | 21.64 |
| 20                                                    | 17           | 16           | 390-582212 | 36.49 | 31.90 | 29.51 |
| 18                                                    | 10           | 16           | 390-584612 | 29.13 | 25.47 | 23.56 |
| 18                                                    | 5            | 12           | 390-586012 | 17.89 | 15.65 | 14.47 |
| 16                                                    | 7            | 16           | 390-588312 | 23.71 | 20.72 | 19.17 |
| 14                                                    | 5            | 16           | 390-590112 | 18.74 | 16.38 | 15.16 |
| 14                                                    | 4            | 16           | 390-592512 | 17.89 | 15.65 | 14.47 |
| 10                                                    | 3            | 16           | 390-594912 | 16.95 | 14.82 | 13.71 |
| <b>Straight Plug - 3106 - Pin Contacts</b>            |              |              |            |       |       |       |
| 36                                                    | 48           | 16           | 390-577912 | 67.88 | 59.35 | 54.90 |
| 28                                                    | 37           | 16           | 390-579212 | 51.20 | 44.77 | 41.41 |
| 24                                                    | 24           | 16           | 390-581012 | 42.47 | 37.14 | 34.35 |
| 20                                                    | 17           | 16           | 390-583412 | 30.98 | 27.09 | 25.05 |
| 18                                                    | 10           | 16           | 390-585812 | 25.21 | 22.04 | 20.39 |
| 18                                                    | 5            | 12           | 390-587112 | 23.31 | 20.37 | 18.85 |
| 16                                                    | 7            | 16           | 390-589512 | 22.00 | 19.23 | 17.79 |
| 14                                                    | 5            | 16           | 390-591312 | 17.52 | 15.32 | 14.17 |
| 14                                                    | 4            | 16           | 390-593712 | 16.88 | 14.76 | 13.65 |
| 10                                                    | 3            | 16           | 390-595012 | 16.24 | 14.20 | 13.13 |
| <b>Panel Mount Receptacle -3102 - Socket Contacts</b> |              |              |            |       |       |       |
| 36                                                    | 48           | 16           | 390-596212 | 57.22 | 50.03 | 46.28 |
| 28                                                    | 37           | 16           | 390-598612 | 45.29 | 39.61 | 36.63 |
| 24                                                    | 24           | 16           | 390-600012 | 33.18 | 29.01 | 26.83 |
| 20                                                    | 17           | 16           | 390-602412 | 23.75 | 20.76 | 19.21 |
| 18                                                    | 10           | 16           | 390-604812 | 16.94 | 14.81 | 13.70 |
| 18                                                    | 5            | 12           | 390-606112 | 14.14 | 12.37 | 11.44 |



| Shell Size                                            | No. Contacts | Contact Size | Order Code | 1+    | 10+   | 25+   |
|-------------------------------------------------------|--------------|--------------|------------|-------|-------|-------|
| <b>Panel Mount Receptacle -3102 - Socket Contacts</b> |              |              |            |       |       |       |
| 16                                                    | 7            | 16           | 390-608512 | 13.08 | 11.43 | 10.58 |
| 14                                                    | 5            | 16           | 390-610312 | 10.59 | 9.26  | 8.57  |
| 14                                                    | 4            | 16           | 390-613912 | 8.73  | 7.63  | 7.07  |
| 10                                                    | 3            | 16           | 390-614012 | 9.48  | 8.28  | 7.67  |
| <b>Panel Mount Receptacle -3102- Pin Contacts</b>     |              |              |            |       |       |       |
| 36                                                    | 48           | 16           | 390-597412 | 44.39 | 38.81 | 35.90 |
| 28                                                    | 37           | 16           | 390-599812 | 35.29 | 30.86 | 28.54 |
| 24                                                    | 24           | 16           | 390-601212 | 31.60 | 27.65 | 18.07 |
| 20                                                    | 17           | 16           | 390-603612 | 18.22 | 15.93 | 14.74 |
| 18                                                    | 10           | 16           | 390-605012 | 13.03 | 11.40 | 10.53 |
| 18                                                    | 5            | 12           | 390-607312 | 11.10 | 9.71  | 8.97  |
| 16                                                    | 7            | 16           | 390-609712 | 11.38 | 9.26  | 8.57  |
| 14                                                    | 5            | 16           | 390-611512 | 9.37  | 8.19  | 7.58  |
| 14                                                    | 4            | 16           | 390-612712 | 9.75  | 8.52  | 7.88  |
| 10                                                    | 3            | 16           | 390-615212 | 8.73  | 7.63  | 7.07  |

**"Mini CPC, currently exclusive through Farnell InOne.**

**Tyco UK/Ireland Distributor of the year 2003**

#### Mini CPC Sealed, 4 and 9 Pole



Ideal for industrial, instrumentation and transportation applications where size, contact density and environmental exposure are primary concerns.

- Nylon housing offers good resistance to wide range of chemicals
- Easy grip 1/4 turn coupling with positive lock
- Anti vibration lock
- Front or rear jam nut mounting
- Fast coupling and uncoupling
- Sealed to IP67

Material Thermoplastic  
Temp Range -55°C to 105°C  
Current Rating 7A, with 18AWG wire  
Working Voltage 600V  
Mating Cycles 500 - gold plated contacts, 50 - tin plated contacts



335230

| No. of Ways                          | Shell Size      | Mfrs. List No. | Order Code | 1+    | 50+   | 100+ | 250+  |
|--------------------------------------|-----------------|----------------|------------|-------|-------|------|-------|
| <b>Cable Plug</b>                    |                 |                |            |       |       |      |       |
| 4                                    | 8               | 1445390-3      | 488-953812 | 1.67  | 1.50  | 1.42 | 1.34  |
| 9                                    | 11              | 1445807-3      | 488-956312 | 1.75  | 1.58  | 1.49 | 1.40  |
| <b>Receptacle - Panel Mounting</b>   |                 |                |            |       |       |      |       |
| 4                                    | 8               | 1445421-3      | 488-951412 | 2.42  | 2.18  | 2.06 | 1.94  |
| 9                                    | 11              | 1445816-3      | 488-954012 | 2.57  | 2.31  | 2.18 | 2.06  |
| <b>Free Receptacle</b>               |                 |                |            |       |       |      |       |
| 4                                    | 8               | 1445389-3      | 488-952612 | 1.80  | 1.62  | 1.53 | 1.44  |
| 9                                    | 11              | 1445825-3      | 488-955112 | 1.88  | 1.69  | 1.60 | 1.50  |
| <b>Order Multiple = 10</b>           |                 |                |            |       |       |      |       |
| Wire Size                            |                 |                |            | 10+   | 100+  | 500+ | 1K+   |
| AWG                                  | mm <sup>2</sup> |                |            |       |       |      |       |
| <b>Pin Contacts - Gold Plated</b>    |                 |                |            |       |       |      |       |
| 26 - 22                              | 0.12 - 0.3      | 170363-3       | 488-957512 | 0.22  | 0.20  | 0.19 | 0.18  |
| 22 - 18                              | 0.3 - 0.8       | 170364-3       | 488-959912 | 0.22  | 0.20  | 0.19 | 0.18  |
| <b>Pin Contacts - Tin Plated</b>     |                 |                |            |       |       |      |       |
| 22 - 26                              | 0.12 - 0.35     | 170363-1       | 133-76012  | 0.052 | 0.042 | 0.04 | 0.036 |
| 18 - 22                              | 0.3 - 0.8       | 170364-1       | 133-77212  | 0.052 | 0.042 | 0.04 | 0.036 |
| <b>Socket Contacts - Gold Plated</b> |                 |                |            |       |       |      |       |
| 26 - 22                              | 0.12 - 0.3      | 170365-3       | 488-958712 | 0.22  | 0.20  | 0.19 | 0.18  |
| 22 - 18                              | 0.3 - 0.8       | 170366-3       | 488-960512 | 0.22  | 0.20  | 0.19 | 0.18  |
| <b>Socket Contacts - Tin Plated</b>  |                 |                |            |       |       |      |       |
| 22 - 26                              | 0.12 - 0.35     | 170365-1       | 133-78412  | 0.052 | 0.042 | 0.04 | 0.036 |
| 18 - 22                              | 0.3 - 0.89      | 170366-1       | 133-79612  | 0.052 | 0.042 | 0.04 | 0.036 |

| No. of Shell Mfrs.        |           |            | Price Each | 1+   | 50+  | 100+ | 250+ |
|---------------------------|-----------|------------|------------|------|------|------|------|
| <b>Order Multiple = 1</b> |           |            |            |      |      |      |      |
| Shell Size                |           |            |            | 1+   | 50+  | 100+ | 250+ |
| <b>Cable Clamp</b>        |           |            |            |      |      |      |      |
| 8                         | 1445730-1 | 488-961712 | 1.15       | 1.04 | 0.98 | 0.92 |      |
| 11                        | 1445856-1 | 488-962912 | 1.15       | 1.04 | 0.98 | 0.92 |      |
| <b>Flange Seal</b>        |           |            |            |      |      |      |      |
| 8                         | 1445420-1 | 488-963012 | 0.43       | 0.39 | 0.37 | 0.34 |      |
| 11                        | 1445420-2 | 488-964212 | 0.43       | 0.39 | 0.37 | 0.34 |      |
| <b>Dust Cap</b>           |           |            |            |      |      |      |      |
| 8                         | 1604089-1 | 488-965412 | 0.65       | 0.59 | 0.55 | 0.52 |      |
| 11                        | 1604089-2 | 488-966612 | 0.76       | 0.68 | 0.65 | 0.61 |      |
| <b>Jam Nut</b>            |           |            |            |      |      |      |      |
| 11                        | 1604196-1 | 488-967812 | 0.64       | 0.58 | 0.54 | 0.51 |      |
|                           | 1445904-1 | 488-968012 | 0.55       | 0.50 | 0.47 | 0.44 |      |
| <b>Crimp Tools</b>        |           |            |            |      |      |      |      |
| 22 - 26                   | 91529-1   | 433-987312 | 319.16     | —    | —    | —    | —    |
| 18 - 22                   | 755331-1  | 133-81412  | 369.96     | —    | —    | —    | —    |

#### Multipole Rectangular

##### MATE-N-LOK II

Mini universal PCB Receptacle



- Multipole PCB Receptacle
- Polarised to ensure correct Mating
- Pitch 4.14mm
- Contacts accept wire size range 30-16 AWG



Housing Polyamid, UL94V-0  
Dielectric Withstanding Voltage 1500 VAC/VDC  
Current Rating Up to 10.5A per circuit, 2 position  
Isolation: 100MΩ  
Durability 25 Mating Cycles  
Temperature Range -20°C To +65°C

239828

| No. of Ways         | Rows   | Mfrs. List No. | Order Code | 1+   | 100+ | 250+ |
|---------------------|--------|----------------|------------|------|------|------|
| <b>Straight</b>     |        |                |            |      |      |      |
| 2                   | 1      | 770166-1       | 361-495512 | 0.54 | 0.48 | 0.46 |
| 3                   | 1      | 770170-1       | 361-496712 | 0.59 | 0.53 | 0.50 |
| 4                   | 2      | 770174-1       | 361-497912 | 0.62 | 0.56 | 0.53 |
| 6                   | 2      | 770178-1       | 361-498012 | 0.69 | 0.60 | 0.58 |
| 8                   | 2      | 794065-1       | 361-499212 | 0.77 | 0.69 | 0.66 |
| 9                   | Matrix | 770182-1       | 361-500512 | 0.82 | 0.74 | 0.70 |
| 10                  | 2      | 770743-1       | 361-501712 | 0.95 | 0.84 | 0.81 |
| 12                  | 2      | 794066-1       | 361-502912 | 1.05 | 0.94 | 0.89 |
| 12                  | Matrix | 770186-1       | 361-503012 | 1.05 | 0.94 | 0.89 |
| 14                  | 2      | 794067-1       | 361-504212 | 1.16 | 1.03 | 0.99 |
| 15                  | Matrix | 770190-1       | 361-505412 | 1.19 | 1.06 | 1.01 |
| 16                  | 2      | 794068-1       | 361-506612 | 1.24 | 1.10 | 1.06 |
| 18                  | 2      | 794069-1       | 361-507812 | 1.33 | 1.19 | 1.13 |
| 20                  | 2      | 794070-1       | 361-508012 | 1.40 | 1.25 | 1.20 |
| 22                  | 2      | 794071-1       | 361-509112 | 1.50 | 1.32 | 1.27 |
| 24                  | 2      | 794072-1       | 361-510812 | 1.61 | 1.44 | 1.37 |
| <b>Right Angled</b> |        |                |            |      |      |      |
| 2                   | 1      | 770966-1       | 361-518212 | 0.66 | 0.58 | 0.56 |
| 3                   | 1      | 770967-1       | 361-519412 | 0.69 | 0.60 | 0.58 |
| 4                   | 2      | 770968-1       | 361-520012 | 0.75 | 0.67 | 0.63 |
| 6                   | 2      | 770969-1       | 361-521212 | 0.93 | 0.82 | 0.78 |
| 8                   | 2      | 770970-1       | 361-522412 | 1.01 | 0.90 | 0.86 |
| 10                  | 2      | 770971-1       | 361-523612 | 1.10 | 0.99 | 0.94 |
| 12                  | 2      | 770972-1       | 361-524812 | 1.15 | 1.02 | 0.99 |
| 14                  | 2      | 770973-1       | 361-525012 | 1.31 | 1.15 | 1.10 |
| 16                  | 2      | 770974-1       | 361-526112 | 1.37 | 1.22 | 1.16 |
| 18                  | 2      | 794105-1       | 361-527312 | 1.53 | 1.35 | 1.30 |
| 20                  | 2      | 794106-1       | 361-528512 | 1.68 | 1.50 | 1.44 |
| 22                  | 2      | 794107-1       | 361-529712 | 1.85 | 1.64 | 1.57 |
| 24                  | 2      | 794108-1       | 361-530312 | 1.94 | 1.73 | 1.65 |

## Multipole Rectangular - continued

### MATE-N-LOK II

Mini Universal, Dual Row



- Locking Plug and Cap Housing Assemblies
- Dual Row
- Contacts accept wire range 30-16 AWG

tyco Electronics AMP



|                                 |                                     |                       |                  |
|---------------------------------|-------------------------------------|-----------------------|------------------|
| Housing                         | Polyamid, UL94V-0                   | Insulation Resistance | 100MR            |
| Contact Resistance              | 20mΩ                                | Durability            | 25 Mating Cycles |
| Dielectric Withstanding Voltage | 1500V AC/VDC                        | Temperature Range     | -20°C To +65°C   |
| Current Rating                  | Up to 10.5A Per circuit, 2 position |                       |                  |

239847

| No. Of Ways | Plug Housing List No. | Order Code        | 1+   | 100+ | 250+ | 500+ |
|-------------|-----------------------|-------------------|------|------|------|------|
| 8           | 794192-1              | <b>361-477312</b> | 1.03 | 0.92 | 0.87 | 0.83 |
| 10          | 794196-1              | <b>361-478512</b> | 1.08 | 0.96 | 0.92 | 0.87 |
| 12          | 794198-1              | <b>361-479712</b> | 1.30 | 1.12 | 0.99 | 0.94 |
| 14          | 794202-1              | <b>361-480312</b> | 1.31 | 1.13 | 1.09 | 1.04 |
| 16          | 794206-1              | <b>361-481512</b> | 1.33 | 1.14 | 1.11 | 1.06 |
| 18          | 794208-1              | <b>361-482712</b> | 1.37 | 1.22 | 1.16 | 1.10 |
| 20          | 794210-1              | <b>361-483912</b> | 1.47 | 1.31 | 1.25 | 1.19 |
| 22          | 794212-1              | <b>361-484012</b> | 1.54 | 1.37 | 1.31 | 1.25 |
| 24          | 794214-1              | <b>361-485212</b> | 1.61 | 1.44 | 1.37 | 1.30 |
| 8           | 794193-1              | <b>361-486412</b> | 1.09 | 0.97 | 0.93 | 0.88 |
| 10          | 794197-1              | <b>361-487612</b> | 1.23 | 1.09 | 1.05 | 1.00 |
| 12          | 794199-1              | <b>361-488812</b> | 1.29 | 1.14 | 1.09 | 1.04 |
| 14          | 794203-1              | <b>361-489012</b> | 1.35 | 1.21 | 1.15 | 1.09 |
| 16          | 794207-1              | <b>361-490612</b> | 1.37 | 1.23 | 1.18 | 1.11 |
| 18          | 794209-1              | <b>361-491812</b> | 1.42 | 1.27 | 1.22 | 1.15 |
| 20          | 794211-1              | <b>361-492012</b> | 1.47 | 1.31 | 1.25 | 1.19 |
| 22          | 794213-1              | <b>361-493112</b> | 1.54 | 1.37 | 1.31 | 1.25 |
| 25          | 794215-1              | <b>361-494312</b> | 1.61 | 1.44 | 1.37 | 1.30 |

### MATE-N-LOK II

Mini Universal Matrix



- Locking Plug and Cap Housing assemblies
- Fully Polarised to ensure correct Mating
- Pins and sockets may be intermixed in the same Housing
- Contacts accept wire size range 30 - 16 AWG

tyco Electronics AMP



|                                 |                                     |
|---------------------------------|-------------------------------------|
| Housing                         | UL94V-0                             |
| Contact Resistance              | 20mΩ                                |
| Dielectric withstanding Voltage | 1500V AC/VDC                        |
| Current rating                  | up to 10.5A Per circuit, 2 position |
| Insulation Resistance           | 100MR                               |
| Durability                      | Up to 25 mating cycles              |
| Temperature Range               | -20°C To +65°C                      |

239850

| No. of Ways | Mftrs List No. | Order Code        | 1+   | 100+ | 250+ | 500+ |
|-------------|----------------|-------------------|------|------|------|------|
| 9           | 794194-1       | <b>361-471212</b> | 0.95 | 0.84 | 0.80 | 0.76 |
| 12          | 794200-1       | <b>361-472412</b> | 1.15 | 1.02 | 0.98 | 0.98 |
| 15          | 794204-1       | <b>361-473612</b> | 1.21 | 1.07 | 1.03 | 1.03 |
| 9           | 794195-1       | <b>361-474812</b> | 1.05 | 0.94 | 0.89 | 0.89 |
| 12          | 794201-1       | <b>361-475012</b> | 1.28 | 1.14 | 1.09 | 1.09 |
| 15          | 794205-1       | <b>361-476112</b> | 1.33 | 1.18 | 1.13 | 1.13 |

### MATE-N-LOK II

Mini Universal Crimp Contacts



- Crimp Contacts: Brass, Tin plated
- supplied Loose

tyco Electronics AMP



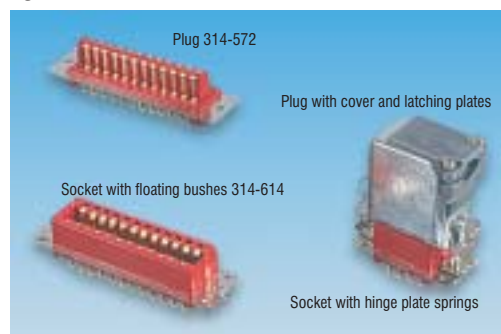
| Contact mm <sup>2</sup> | Insulation-Ø mm | L mm  | Mftrs List No. | Order Code |
|-------------------------|-----------------|-------|----------------|------------|
| 0.05-0.12               | 0.89-1.27       | 19.69 | 794224-1       | 361-5315   |
| 0.12-0.3                | 1.19-1.75       | 19.69 | 794226-1       | 361-5327   |
| 0.3-0.8                 | 1.50-2.39       | 19.69 | 794228-1       | 361-5339   |
| 0.5-1.2                 | 2.01-3.20       | 19.69 | 794230-1       | 361-5340   |
| 0.05-0.12               | 0.89-1.27       | 19.69 | 794225-1       | 361-5352   |
| 0.12-0.3                | 1.19-1.75       | 19.69 | 794227-1       | 361-5364   |
| 0.3-0.8                 | 1.50-2.39       | 19.69 | 794229-1       | 361-5376   |
| 0.5-1.2                 | 2.01-3.20       | 19.69 | 794231-1       | 361-5388   |

239866

| Mftrs List No.                  | Order Code | 10+    | Price Each 50+ | 100+  |
|---------------------------------|------------|--------|----------------|-------|
| <b>Pin Contact</b>              |            |        |                |       |
| 794224-1                        | 361-531512 | 0.073  | 0.062          | 0.052 |
| 794226-1                        | 361-532712 | 0.073  | 0.062          | 0.052 |
| 794228-1                        | 361-533912 | 0.073  | 0.062          | 0.052 |
| 794230-1                        | 361-534012 | 0.073  | 0.062          | 0.052 |
| <b>Socket Contact</b>           |            |        |                |       |
| 794225-1                        | 361-535212 | 0.073  | 0.062          | 0.052 |
| 794227-1                        | 361-536412 | 0.073  | 0.062          | 0.052 |
| 794229-1                        | 361-537612 | 0.073  | 0.062          | 0.052 |
| 794231-1                        | 361-538812 | 0.073  | 0.062          | 0.052 |
| <b>Crimp Tool</b>               |            |        |                |       |
| 0-0090707-2                     |            | 1+     |                |       |
| 22-18 (0.3-0.8mm <sup>2</sup> ) | 423-251312 | 679.58 |                |       |
| 0-0091522-1                     |            |        |                |       |
| 20-16 (0.5-1.3mm <sup>2</sup> ) | 423-250112 | 248.61 |                |       |

### Red Range 5A

### McMurdo



A range of connectors with a low insertion and withdrawal force, having barrier polarisation of plug relative to socket ensuring that incorrect contact cannot be made during blind insertion. Mouldings in red nylon PF.

|                       |                  |                                   |                 |
|-----------------------|------------------|-----------------------------------|-----------------|
| Current rating @ 80°C | 5A max           | Insulation resistance (initially) | 100000MΩ max    |
| Operating voltage     | 800V dc          | Contact resistance (initially)    | 5mΩ             |
| Breakdown voltage     | 3.5kV dc/ac peak | Temperature range                 | -40°C to +100°C |
| Contact pitch         | 4.7mm            |                                   |                 |

**Note:** All covers are supplied with side entry, but can all be changed to top entry if required.

CM124

| No. of Ways                         | Mftrs. List No. | Order Code       | 1+    | 25+   | Price Each 50+ | 100+  | 250+  | 500+  |
|-------------------------------------|-----------------|------------------|-------|-------|----------------|-------|-------|-------|
| <b>Plugs</b>                        |                 |                  |       |       |                |       |       |       |
| 8                                   | RP8             | <b>314-55912</b> | 6.38  | 5.75  | 5.60           | 5.44  | 5.12  | 4.41  |
| 16                                  | RP16            | <b>314-56012</b> | 8.73  | 7.87  | 7.64           | 7.45  | 7.01  | 6.11  |
| 24                                  | RP24            | <b>314-57212</b> | 11.97 | 10.78 | 10.50          | 10.23 | 9.59  | 8.70  |
| 32                                  | RP32            | <b>314-58412</b> | 20.73 | 15.67 | 13.84          | 11.76 | 10.71 | 9.30  |
| <b>Sockets with Floating Bushes</b> |                 |                  |       |       |                |       |       |       |
| 8                                   | RS8             | <b>314-59612</b> | 7.28  | 6.56  | 6.38           | 6.21  | 5.83  | 5.21  |
| 16                                  | RS16            | <b>314-60212</b> | 10.65 | 9.59  | 9.33           | 9.10  | 8.53  | 7.70  |
| 24                                  | RS24            | <b>314-61412</b> | 15.17 | 13.69 | 13.32          | 12.94 | 12.16 | 10.47 |
| 32                                  | RS32            | <b>314-62612</b> | 24.29 | 18.97 | 16.18          | 13.75 | 12.50 | 10.82 |
| <b>Covers</b>                       |                 |                  |       |       |                |       |       |       |
| 8                                   | RC108           | <b>314-64012</b> | 13.15 | 9.82  | 8.67           | 7.37  | 6.71  | 5.87  |
| 16                                  | RC116           | <b>314-65112</b> | 14.15 | 10.56 | 9.32           | 7.94  | 7.22  | 6.31  |
| 24                                  | RC124           | <b>314-66312</b> | 14.29 | 10.67 | 9.43           | 8.00  | 7.28  | 6.38  |
| 32                                  | RC132           | <b>314-67512</b> | 14.76 | 11.00 | 9.74           | 8.27  | 7.53  | 6.59  |



| No. of Ways               | Mfrs. List No. | Order Code | 1+   | 25+  | 50+  | 100+ | 250+ | 500+ |
|---------------------------|----------------|------------|------|------|------|------|------|------|
| <b>Hinge Plate Spring</b> |                |            |      |      |      |      |      |      |
| RLH                       | 314-68712      |            | 0.76 | 0.58 | 0.48 | 0.42 | 0.38 | 0.35 |
| <b>Order Multiple=4</b>   |                |            |      |      |      |      |      |      |
| <b>Latching Plates</b>    |                |            |      |      |      |      |      |      |
| RLL                       | 314-69912      |            | 0.42 | 0.33 | 0.30 | 0.24 | 0.23 | 0.19 |

## Wire Connectors

### Winged Wire Connectors



**multicomp**

**New**

- Colour coded to industry standards
- Designed for ease of use in tight spaces
- Square wire spring provides secure grip on conductor
- Flame retardant thermoplastic shell
- Approvals **UL, CSA**

Voltage Rating 600V  
Working Temperature 105°C  
Material Thermoplastic, UL94V-2

312009

| Wire Size    | Order Code | 1+   | 5+   | 10+  |
|--------------|------------|------|------|------|
| 18 To 10,AWG | 443-104212 | 2.18 | 1.84 | 1.68 |
| 22 To 8,AWG  | 443-105412 | 2.73 | 2.30 | 2.10 |
| 18 To 8,AWG  | 443-106612 | 2.75 | 2.32 | 2.12 |
| 18 To 8,AWG  | 443-107812 | 4.10 | 3.65 | 3.30 |
| 14 To 6,AWG  | 443-108012 | 5.70 | 4.70 | 4.30 |

### Push In Wire Connectors



**multicomp**

**New**

- Solid wire push in connector
- Flame retardant thermoplastic
- Colour coded
- Approvals **UL, CSA**

Housing Material Thermoplastic UL94V-2  
Current Rating 24A  
Working Temperature 110 C  
Voltage Rating 600V  
Wire Range 22 To 12 AWG

Height 9.5mm  
Width 10.5mm  
Depth 19.5mm

312010

| No of Ways | Order Code | 10+   | 50+   | 100+  |
|------------|------------|-------|-------|-------|
| 2 Red      | 443-110812 | 0.074 | 0.04  | 0.029 |
| 3 Orange   | 443-111012 | 0.088 | 0.048 | 0.034 |
| 4 Yellow   | 443-112112 | 0.101 | 0.055 | 0.039 |
| 5 Grey     | 443-113312 | 0.123 | 0.067 | 0.048 |
| 8 Black    | 443-114512 | 0.221 | 0.121 | 0.086 |

## 0.8mm Pitch

### Plugs and Sockets



- Allows horizontal board to board stacking for design flexibility
- Fine pitch surface mount technology
- Board locating pegs on plug
- 10 to 50 way double row
- Polarised housing
- Low profile design

Voltage rating 500Vac  
Current rating 0.5A  
Dielectric strength Vac  
Insulation resistance 50MΩ(250Vdc)  
Temperature range -40°C to +105°C  
Housing Polyamide UL94V-0  
Contacts Phosphor Bronze

Mfrs. List No. Plugs=M60-711XX05P, Sockets=M60-705XX05, where XX=No. of ways

335244

| No. of Ways        | Order Code | 1+   | 25+  | 50+  | 100+ | 250+ |
|--------------------|------------|------|------|------|------|------|
| <b>SMT Plugs</b>   |            |      |      |      |      |      |
| 10+10              | 486-090112 | 1.49 | 1.34 | 1.22 | 1.08 | 1.02 |
| 15+15              | 486-091312 | 1.80 | 1.62 | 1.47 | 1.30 | 1.23 |
| 20+20              | 486-092512 | 2.16 | 1.95 | 1.77 | 1.57 | 1.47 |
| 25+25              | 486-093712 | 2.47 | 2.22 | 2.02 | 1.79 | 1.68 |
| 30+30              | 486-094912 | 2.89 | 2.60 | 2.37 | 2.10 | 1.97 |
| 40+40              | 486-095012 | 2.97 | 2.67 | 2.43 | 2.16 | 2.03 |
| 50+50              | 486-096212 | 3.36 | 3.02 | 2.75 | 2.44 | 2.29 |
| <b>SMT Sockets</b> |            |      |      |      |      |      |
| 10+10              | 486-097412 | 1.32 | 1.19 | 1.08 | 0.96 | 0.90 |
| 15+15              | 486-098612 | 1.52 | 1.37 | 1.25 | 1.11 | 1.04 |
| 20+20              | 486-099812 | 1.71 | 1.54 | 1.40 | 1.24 | 1.17 |
| 25+25              | 486-100012 | 1.88 | 1.69 | 1.53 | 1.36 | 1.28 |
| 30+30              | 486-101212 | 2.26 | 2.03 | 1.85 | 1.64 | 1.54 |
| 40+40              | 486-102412 | 3.28 | 2.96 | 2.69 | 2.38 | 2.24 |
| 50+50              | 486-103612 | 3.66 | 3.29 | 2.99 | 2.65 | 2.49 |

## 1.00mm Pitch

### IEEE 1386 - Mezzanine

#### 1.00mm (.039") Pitch - Plugs and Receptacles



- Mated heights 8, 9, 10, 11, 12, 13, 14 and 15mm
- 64 circuits
- Leaf style design protects pins
- Antiflux design
- Low insertion force
- High temperature LCP housing for use with reflow solder processes



The IEEE1386 Standard contains the details for adding standardized PCI mezzanine cards to VMEbus and Multibus host boards. There are also many LAN, WAN, telecommunications, PC and workstation users who want a standardized mezzanine scheme, and see the IEEE1386 as the best approach. The fully shrouded leaf-style design minimizes the chance of damaging plug contacts, and our receptacle contacts feature a low mating force that reduces PC board stress. Gold over Nickel contact plating enhances long-term reliability and the UL 94V-0 LCP housings withstand SMT reflow processes. Excellent tolerance absorption allows the connector to be used in combinations of 1-4 mated pairs for up to 256 circuits.

Voltage Rating 100V  
Current Rating 1.0A  
Contact Resistance 30mR  
Withstand Voltage 250V  
Insulation Resistance 1000MR  
Operating temperature range: -55°C to 85°C  
Mating/Unmating Force 25 g Max / 50 g Min - per contact  
Contacts Phosphor Bronze Gold plated  
Approval UL File No. E29179

335214

| Description    | Mfrs. List No. | Order Code | 1+   | 10+  | 50+  | 250+ | 500+ |
|----------------|----------------|------------|------|------|------|------|------|
| <b>Headers</b> |                |            |      |      |      |      |      |
| 8.0mm          | 714360164      | 477-130812 | 3.60 | 3.40 | 3.10 | 2.85 | 2.60 |
| 9.0mm          | 714361164      | 477-131012 | 3.60 | 3.40 | 3.10 | 2.85 | 2.60 |
| 10.0mm         | 714362164      | 477-132112 | 3.60 | 3.40 | 3.10 | 2.85 | 2.60 |
| <b>Sockets</b> |                |            |      |      |      |      |      |
| 8/9/10 mm      | 714390164      | 477-133312 | 3.40 | 3.22 | 3.00 | 2.65 | 2.45 |
| 11/12 mm       | 714391164      | 477-134512 | 3.40 | 3.22 | 3.00 | 2.65 | 2.45 |
| 13 mm          | 714392164      | 477-135712 | 3.40 | 3.22 | 3.00 | 2.65 | 2.45 |
| 14/15 mm       | 714393164      | 477-136912 | 3.40 | 3.22 | 3.00 | 2.65 | 2.45 |

## 1.25/1.27mm Pitch

## IL-Z series PCB to Wire Connectors

1.25mm Pitch



IL-Z connectors are designed for wire to board applications. The series includes board mounted headers ( straight and RA ) and wire terminated socket housings.

- 1.25 mm contact spacing
- 2 to 15 contacts
- SMT and through hole pin headers
- boxed pin header design to prevent mis-mating
- Anti wicking feature

|                       |                         |                   |                        |
|-----------------------|-------------------------|-------------------|------------------------|
| Current Rating        | 1A                      | Withstand Voltage | 500V AC rms per minute |
| Insulation Resistance | 100M $\Omega$           | Insulator         | Nylon 6-6 UL94V-0      |
| Operating Temperature | -40°C to 70°C           | PCB Thickness     | 0.6mm to 1.2mm         |
| Contact Resistance    | $\leq 20\text{m}\Omega$ | Applicable Wire   | 32AWG to 28AWG         |
| Pitch                 | 1.25mm                  |                   |                        |

233425

| No. Contacts                          | Mfrs. List No. | Order Code | 1 +  | 100 + | 250 + |
|---------------------------------------|----------------|------------|------|-------|-------|
| <b>Pin Header - SMT - Right Angle</b> |                |            |      |       |       |
| 2                                     | IL-Z-2PL-SMTY  | 388-700512 | 0.23 | 0.21  | 0.187 |
| 3                                     | IL-Z-3PL-SMTY  | 388-701712 | 0.25 | 0.23  | 0.21  |
| 4                                     | IL-Z-4PL-SMTY  | 388-702912 | 0.28 | 0.26  | 0.24  |
| 5                                     | IL-Z-5PL-SMTY  | 388-703012 | 0.30 | 0.28  | 0.25  |
| 6                                     | IL-Z-6PL-SMTY  | 388-704212 | 0.31 | 0.29  | 0.26  |
| 7                                     | IL-Z-7PL-SMTY  | 388-705412 | 0.32 | 0.30  | 0.28  |
| 8                                     | IL-Z-8PL-SMTY  | 388-706612 | 0.33 | 0.31  | 0.29  |
| 9                                     | IL-Z-9PL-SMTY  | 388-707812 | 0.34 | 0.33  | 0.30  |
| 10                                    | IL-Z-10PL-SMTY | 388-708012 | 0.36 | 0.34  | 0.31  |
| 11                                    | IL-Z-11PL-SMTY | 388-709112 | 0.37 | 0.35  | 0.32  |
| 12                                    | IL-Z-12PL-SMTY | 388-710812 | 0.38 | 0.37  | 0.34  |
| 13                                    | IL-Z-13PL-SMTY | 388-711012 | 0.40 | 0.38  | 0.36  |
| 14                                    | IL-Z-14PL-SMTY | 388-712112 | 0.41 | 0.40  | 0.37  |
| 15                                    | IL-Z-15PL-SMTY | 388-713312 | 0.42 | 0.41  | 0.38  |

## Pin Header - Through Hole - Straight

|    |                   |            |       |       |       |
|----|-------------------|------------|-------|-------|-------|
| 2  | IL-Z-2P-S125T3-E  | 388-714512 | 0.104 | 0.104 | 0.083 |
| 3  | IL-Z-3P-S125T3-E  | 388-715712 | 0.114 | 0.104 | 0.094 |
| 4  | IL-Z-4P-S125T3-E  | 388-716912 | 0.125 | 0.114 | 0.104 |
| 5  | IL-Z-5P-S125T3-E  | 388-717012 | 0.135 | 0.125 | 0.114 |
| 6  | IL-Z-6P-S125T3-E  | 388-718212 | 0.146 | 0.135 | 0.125 |
| 7  | IL-Z-7P-S125T3-E  | 388-719412 | 0.156 | 0.146 | 0.135 |
| 8  | IL-Z-8P-S125T3-E  | 388-720012 | 0.177 | 0.156 | 0.146 |
| 9  | IL-Z-9P-S125T3-E  | 388-721212 | 0.198 | 0.177 | 0.156 |
| 10 | IL-Z-10P-S125T3-E | 388-722412 | 0.22  | 0.198 | 0.177 |
| 11 | IL-Z-11P-S125T3-E | 388-723612 | 0.23  | 0.21  | 0.187 |
| 12 | IL-Z-12P-S125T3-E | 388-724812 | 0.24  | 0.22  | 0.198 |
| 13 | IL-Z-13P-S125T3-E | 388-725012 | 0.26  | 0.25  | 0.23  |
| 14 | IL-Z-14P-S125T3-E | 388-726112 | 0.27  | 0.25  | 0.23  |
| 15 | IL-Z-15P-S125T3-E | 388-727312 | 0.29  | 0.28  | 0.25  |

## Pin Header - Through Hole - RA

|    |                   |            |       |       |       |
|----|-------------------|------------|-------|-------|-------|
| 2  | IL-Z-2P-S125L3-E  | 388-728512 | 0.104 | 0.104 | 0.083 |
| 3  | IL-Z-3P-S125L3-E  | 388-729712 | 0.114 | 0.104 | 0.094 |
| 4  | IL-Z-4P-S125L3-E  | 388-730312 | 0.125 | 0.114 | 0.104 |
| 5  | IL-Z-5P-S125L3-E  | 388-731512 | 0.135 | 0.125 | 0.114 |
| 6  | IL-Z-6P-S125L3-E  | 388-732712 | 0.146 | 0.135 | 0.125 |
| 7  | IL-Z-7P-S125L3-E  | 388-733912 | 0.156 | 0.146 | 0.135 |
| 8  | IL-Z-8P-S125L3-E  | 388-734012 | 0.177 | 0.156 | 0.146 |
| 9  | IL-Z-9P-S125L3-E  | 388-735212 | 0.198 | 0.177 | 0.156 |
| 10 | IL-Z-10P-S125L3-E | 388-736412 | 0.22  | 0.198 | 0.177 |
| 11 | IL-Z-11P-S125L3-E | 388-737612 | 0.23  | 0.21  | 0.187 |
| 12 | IL-Z-12P-S125L3-E | 388-738812 | 0.24  | 0.22  | 0.198 |
| 13 | IL-Z-13P-S125L3-E | 388-739012 | 0.26  | 0.25  | 0.23  |
| 14 | IL-Z-14P-S125L3-E | 388-740612 | 0.27  | 0.25  | 0.23  |
| 15 | IL-Z-15P-S125L3-E | 388-741812 | 0.29  | 0.28  | 0.25  |

## Socket Housing

|    |                 |            |       |       |       |
|----|-----------------|------------|-------|-------|-------|
| 2  | IL-Z-2S-S125C3  | 388-742012 | 0.073 | 0.062 | 0.062 |
| 3  | IL-Z-3S-S125C3  | 388-743112 | 0.083 | 0.073 | 0.062 |
| 4  | IL-Z-4S-S125C3  | 388-744312 | 0.083 | 0.083 | 0.073 |
| 5  | IL-Z-5S-S125C3  | 388-745512 | 0.094 | 0.083 | 0.073 |
| 6  | IL-Z-6S-S125C3  | 388-746712 | 0.104 | 0.094 | 0.083 |
| 7  | IL-Z-7S-S125C3  | 388-747912 | 0.114 | 0.114 | 0.094 |
| 8  | IL-Z-8S-S125C3  | 388-748012 | 0.125 | 0.114 | 0.094 |
| 9  | IL-Z-9S-S125C3  | 388-749212 | 0.135 | 0.125 | 0.104 |
| 10 | IL-Z-10S-S125C3 | 388-750912 | 0.146 | 0.125 | 0.104 |
| 11 | IL-Z-11S-S125C3 | 388-751012 | 0.156 | 0.135 | 0.114 |
| 12 | IL-Z-12S-S125C3 | 388-752212 | 0.177 | 0.156 | 0.135 |
| 13 | IL-Z-13S-S125C3 | 388-753412 | 0.187 | 0.166 | 0.146 |
| 14 | IL-Z-14S-S125C3 | 388-754612 | 0.21  | 0.198 | 0.166 |
| 15 | IL-Z-15S-S125C3 | 388-755812 | 0.23  | 0.21  | 0.187 |

| No. Contacts                | Mfrs. List No.  | Order Code | 1 +  | 100 +  | 250 + |
|-----------------------------|-----------------|------------|------|--------|-------|
| <b>Tools</b>                |                 |            |      |        |       |
| Crimp Tool                  | CT150-4C-ILZ    | 388-757112 |      | 463.36 |       |
| Ext Tool                    | ET-ILZ          | 388-759512 |      | 13.52  |       |
| <b>Price Per Pack (100)</b> |                 |            |      |        |       |
| <b>Contacts</b>             |                 |            | 1 +  | 5 +    | 10 +  |
| 28-32 AWG                   | IL-Z-C3-A-15000 | 388-756012 | 2.37 | 2.15   | 1.98  |

## TX14/TX15 Board to Board Series

1.27mm Pitch



Leaf type contact design provides superior reliability and resistance to twisting

- 1.27mm contact spacing
- Through hole type for PCB/PCB application
- High density configuration for space saving
- First mate last break contacts
- 12mm stacking height
- Polarized to prevent mismating

|                       |                         |
|-----------------------|-------------------------|
| Current Rating        | 0.5A                    |
| Insulation Resistance | 100M $\Omega$           |
| Operating Temperature | -40°C to 80°C           |
| Contact Resistance    | $\leq 40\text{m}\Omega$ |
| Pitch                 | 1.27mm                  |
| Withstand Voltage     | 500V rms per minute     |

233419

| No. Contacts                  | Mfrs. List No.    | Order Code | 1 +  | 100 + | 250 + |
|-------------------------------|-------------------|------------|------|-------|-------|
| <b>Right Angle Receptacle</b> |                   |            |      |       |       |
| 30                            | TX14-30R-LT-MH1   | 388-760112 | 1.62 | 1.48  | 1.35  |
| 40                            | TX14-40R-LT-MH1   | 388-761312 | 1.72 | 1.56  | 1.44  |
| 50                            | TX14-50R-LT-MH1   | 388-762512 | 2.18 | 1.99  | 1.82  |
| 60                            | TX14-60R-LT-MH1   | 388-763712 | 2.55 | 2.32  | 2.13  |
| 70                            | TX14-70R-LT-MH1   | 388-764912 | 3.05 | 2.77  | 2.54  |
| 80                            | TX14-80R-LT-MH1   | 388-765012 | 3.43 | 3.12  | 2.86  |
| 100                           | TX14-100R-LT-MH1  | 388-766212 | 3.80 | 3.45  | 3.16  |
| 120                           | TX14-120R-LT-MH1  | 388-767412 | 4.57 | 4.15  | 3.81  |
| <b>Right Angle Plug</b>       |                   |            |      |       |       |
| 30                            | TX15-30P-LT-MH1   | 388-768612 | 1.62 | 1.48  | 1.35  |
| 40                            | TX15-40P-LT-MH1   | 388-769812 | 1.72 | 1.56  | 1.44  |
| 50                            | TX15-50P-LT-MH1   | 388-770412 | 2.18 | 1.99  | 1.82  |
| 60                            | TX15-60P-LT-MH1   | 388-771612 | 2.55 | 2.32  | 2.13  |
| 70                            | TX15-70P-LT-MH1   | 388-772812 | 3.05 | 2.77  | 2.54  |
| 80                            | TX15-80P-LT-MH1   | 388-773012 | 3.43 | 3.12  | 2.86  |
| 100                           | TX15-100P-LT-MH1  | 388-774112 | 3.80 | 3.45  | 3.16  |
| 120                           | TX15-120P-LT-MH1  | 388-775312 | 4.57 | 4.15  | 3.81  |
| <b>Straight Receptacle</b>    |                   |            |      |       |       |
| 30                            | TX14-30R-6ST-MH1  | 388-776512 | 1.15 | 1.05  | 0.97  |
| 40                            | TX14-40R-6ST-MH1  | 388-777712 | 1.24 | 1.12  | 1.03  |
| 50                            | TX14-50R-6ST-MH1  | 388-778912 | 1.42 | 1.30  | 1.19  |
| 60                            | TX14-60R-6ST-MH1  | 388-779012 | 1.71 | 1.55  | 1.42  |
| 70                            | TX14-70R-6ST-MH1  | 388-780712 | 2.10 | 1.91  | 1.75  |
| 80                            | TX14-80R-6ST-MH1  | 388-781912 | 2.38 | 2.16  | 1.99  |
| 100                           | TX14-100R-6ST-MH1 | 388-782012 | 2.66 | 2.42  | 2.23  |
| 120                           | TX14-120R-6ST-MH1 | 388-783212 | 3.18 | 2.90  | 2.65  |
| <b>Straight Plug</b>          |                   |            |      |       |       |
| 30                            | TX15-30P-6ST-MH1  | 388-784412 | 1.15 | 1.05  | 0.97  |
| 40                            | TX15-40P-6ST-MH1  | 388-785612 | 1.24 | 1.12  | 1.03  |
| 50                            | TX15-50P-6ST-MH1  | 388-786812 | 1.42 | 1.30  | 1.19  |
| 60                            | TX15-60P-6ST-MH1  | 388-787012 | 1.71 | 1.55  | 1.42  |
| 70                            | TX15-70P-6ST-MH1  | 388-788112 | 2.10 | 1.91  | 1.75  |
| 80                            | TX15-80P-6ST-MH1  | 388-789312 | 2.38 | 2.16  | 1.99  |
| 100                           | TX15-100P-6ST-MH1 | 388-790012 | 2.66 | 2.42  | 2.23  |
| 120                           | TX15-120P-6ST-MH1 | 388-791112 | 3.18 | 2.90  | 2.65  |



## 2.00mm Pitch

2.0mm Datamate  
SMT / Crimp

- Suitable for board to board, board to wire and wire to wire applications
- Four leaf beryllium copper contact suitable for high speed data transmission
- Fully shrouded contacts
- Polarised mouldings
- Latched versions for additional strain relief
- Location pegs on SMT connectors
- Crimp contacts are rear insertable and replaceable

## Specification

|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Current Rating        | 3.3A at 25°C                                                        |
| Working Voltage       | 120V dc or ac peak                                                  |
| Contact Resistance    | 25 mΩ max                                                           |
| Insulation Resistance | 100MΩ min at 500V dc                                                |
| Proof Voltage         | 360V dc or ac peak                                                  |
| Mating Cycles         | 500                                                                 |
| Housing Mat           | Thermoplastic GF UL94V-0                                            |
| Contact Material      | Female - Brass shell beryllium copper inner contact<br>Male - Brass |
| Contact Plating       | Gold                                                                |
| Large Bore            | 22 AWG BS3G210 Type A                                               |
| Small Bore            | 28-24 AWG BS3G210 Type A                                            |

233270

| No Ways                                    | Mfrs.<br>List No. | Order Code | 1+   | 10+  | 50+  |
|--------------------------------------------|-------------------|------------|------|------|------|
| <b>Plug Vertical SMT</b>                   |                   |            |      |      |      |
| 8                                          | M80-6460805P      | 390-663212 | 2.34 | 2.11 | 1.90 |
| 10                                         | M80-6461005P      | 390-664412 | 2.70 | 2.43 | 2.19 |
| 12                                         | M80-6461205P      | 390-665612 | 3.09 | 2.78 | 2.50 |
| 14                                         | M80-6461405P      | 390-666812 | 3.47 | 3.13 | 2.82 |
| 16                                         | M80-6461605P      | 390-667012 | 3.81 | 3.42 | 3.08 |
| 18                                         | M80-6461805P      | 390-668112 | 4.17 | 3.75 | 3.38 |
| 20                                         | M80-6462005P      | 390-669312 | 4.58 | 4.12 | 3.71 |
| <b>Plug Vertical SMT Locking Latch</b>     |                   |            |      |      |      |
| 8                                          | M80-6470805P      | 390-670012 | 2.80 | 2.52 | 2.27 |
| 10                                         | M80-6471005P      | 390-671112 | 3.16 | 2.84 | 2.56 |
| 12                                         | M80-6471205P      | 390-672312 | 3.55 | 3.19 | 2.87 |
| 14                                         | M80-6471405P      | 390-673512 | 3.93 | 3.54 | 3.18 |
| 16                                         | M80-6471605P      | 390-674712 | 4.26 | 3.84 | 3.45 |
| 18                                         | M80-6471805P      | 390-675912 | 4.63 | 4.16 | 3.74 |
| 20                                         | M80-6472005P      | 390-676012 | 5.03 | 4.53 | 4.08 |
| <b>Plug Vertical SMT Friction Latch</b>    |                   |            |      |      |      |
| 8                                          | M80-6480805P      | 390-677212 | 2.86 | 2.57 | 2.32 |
| 10                                         | M80-6481005P      | 390-678412 | 3.21 | 2.89 | 2.60 |
| 12                                         | M80-6481205P      | 390-679612 | 3.60 | 3.23 | 2.91 |
| 14                                         | M80-6481405P      | 390-680212 | 3.98 | 3.59 | 3.22 |
| 16                                         | M80-6481605P      | 390-681412 | 4.32 | 3.89 | 3.49 |
| 18                                         | M80-6481805P      | 390-682612 | 4.68 | 4.21 | 3.80 |
| 20                                         | M80-6482005P      | 390-683812 | 5.09 | 4.58 | 4.12 |
| <b>Socket Vertical SMT</b>                 |                   |            |      |      |      |
| 8                                          | M80-6970805P      | 390-684012 | 4.15 | 3.74 | 3.37 |
| 10                                         | M80-6971005P      | 390-685112 | 4.98 | 4.49 | 4.04 |
| 12                                         | M80-6971205P      | 390-686312 | 5.81 | 5.24 | 4.71 |
| 14                                         | M80-6971405P      | 390-687512 | 6.65 | 5.98 | 5.39 |
| 16                                         | M80-6971605P      | 390-688712 | 7.51 | 6.75 | 6.08 |
| 18                                         | M80-6971805P      | 390-689912 | 8.35 | 7.52 | 6.76 |
| 20                                         | M80-6972005P      | 390-690512 | 9.18 | 8.27 | 7.44 |
| <b>Male Crimp Plugs</b>                    |                   |            |      |      |      |
| <b>Plug Crimp Small Bore Locking Latch</b> |                   |            |      |      |      |
| 8                                          | M80-8120805       | 390-691712 | 2.27 | 2.05 | 1.84 |
| 10                                         | M80-8121005       | 390-692912 | 2.68 | 2.41 | 2.17 |
| 12                                         | M80-8121205       | 390-693012 | 3.09 | 2.79 | 2.51 |

| No Ways                                     | Mfrs.<br>List No. | Order Code | 1+     | 10+   | 50+   |
|---------------------------------------------|-------------------|------------|--------|-------|-------|
| <b>Plug Crimp Large Bore Locking Latch</b>  |                   |            |        |       |       |
| 8                                           | M80-8130805       | 390-694212 | 1.78   | 1.60  | 1.44  |
| 10                                          | M80-8131005       | 390-695412 | 2.05   | 1.84  | 1.66  |
| 12                                          | M80-8131205       | 390-696612 | 2.33   | 2.09  | 1.88  |
| <b>Plug Crimp Small Bore Friction Latch</b> |                   |            |        |       |       |
| 8                                           | M80-8160805       | 390-697812 | 2.33   | 2.09  | 1.88  |
| 10                                          | M80-8161005       | 390-698012 | 2.74   | 2.46  | 2.22  |
| 12                                          | M80-8161205       | 390-699112 | 3.15   | 2.83  | 2.55  |
| <b>Plug Crimp Large Bore Friction Latch</b> |                   |            |        |       |       |
| 8                                           | M80-8170805       | 390-700412 | 1.78   | 1.60  | 1.44  |
| 10                                          | M80-8171005       | 390-701612 | 2.05   | 1.84  | 1.66  |
| 12                                          | M80-8171205       | 390-702812 | 2.33   | 2.09  | 1.88  |
| <b>Crimps</b>                               |                   |            |        |       |       |
| Large Bore                                  | M80-0400005       | 390-703012 | 0.135  | 0.125 | 0.114 |
| Small Bore                                  | M80-0410005       | 390-704112 | 0.21   | 0.187 | 0.166 |
| <b>Tooling</b>                              |                   |            |        |       |       |
| Crimp Tool                                  | M22520-02-01      | 105-83712  | 233.66 |       |       |
| Positioner                                  | T5747F            | 495-94312  | 65.00  |       |       |
| Ins/Ext Tool                                | Z80-250           | 390-705312 | 97.76  |       |       |
| Separator                                   | T5746F            | 495-96712  | 20.00  |       |       |

## 2.00mm Pitch Headers -SMT

Pin Headers - 90°  
Gold Plated, SIL and DIL

Pitch = 2mm

Mfrs. List No. Single row=M22-533xx05, Double row=M22-543xx05, where xx=No. of ways

|                       |                 |          |                  |
|-----------------------|-----------------|----------|------------------|
| Contact rating        | 1A              | Housings | Nylon 6T UL94V-0 |
| Contact resistance    | 20mΩ            | Contacts | Phosphor Bronze  |
| Proof voltage         | 500V rms        | Plating  | Gold             |
| Insulation resistance | 5000MΩ          |          |                  |
| Temperature range     | -40°C to +105°C |          |                  |

335246

| No. of<br>Ways             | Order Code | 10+  | 50+  | 100+ | 500+ | 1K+  |
|----------------------------|------------|------|------|------|------|------|
| <b>Single Row</b>          |            |      |      |      |      |      |
| <b>Order Multiple = 10</b> |            |      |      |      |      |      |
| 3                          | 486-104812 | 0.21 | 0.19 | 0.17 | 0.15 | 0.14 |
| 4                          | 486-105012 | 0.28 | 0.25 | 0.23 | 0.20 | 0.19 |
| 5                          | 486-106112 | 0.35 | 0.32 | 0.29 | 0.25 | 0.24 |
| 6                          | 486-107312 | 0.42 | 0.38 | 0.35 | 0.31 | 0.29 |
| 8                          | 486-108512 | 0.56 | 0.51 | 0.46 | 0.41 | 0.38 |
| 10                         | 486-109712 | 0.70 | 0.63 | 0.57 | 0.51 | 0.48 |
| 12                         | 486-110312 | 0.84 | 0.76 | 0.69 | 0.61 | 0.57 |
| <b>Order Multiple = 1</b>  |            |      |      |      |      |      |
| 20                         | 486-111512 | 1.40 | 1.26 | 1.15 | 1.02 | 0.96 |
| 25                         | 486-112712 | 1.76 | 1.58 | 1.44 | 1.27 | 1.20 |
| <b>Double Row</b>          |            |      |      |      |      |      |
| <b>Order Multiple = 10</b> |            |      |      |      |      |      |
| 3+3                        | 486-113912 | 0.42 | 0.38 | 0.34 | 0.30 | 0.28 |
| 4+4                        | 486-114012 | 0.56 | 0.50 | 0.46 | 0.41 | 0.38 |
| 5+5                        | 486-115212 | 0.70 | 0.63 | 0.57 | 0.51 | 0.48 |
| 6+6                        | 486-116412 | 0.84 | 0.76 | 0.69 | 0.61 | 0.58 |
| <b>Order Multiple = 1</b>  |            |      |      |      |      |      |
| 8+8                        | 486-117612 | 1.12 | 1.01 | 0.92 | 0.81 | 0.76 |
| 10+10                      | 486-118812 | 1.40 | 1.26 | 1.15 | 1.02 | 0.96 |
| 12+12                      | 486-119012 | 1.69 | 1.52 | 1.38 | 1.23 | 1.15 |
| 20+20                      | 486-120612 | 2.81 | 2.53 | 2.30 | 2.04 | 1.92 |
| 25+25                      | 486-121812 | 3.51 | 3.16 | 2.87 | 2.55 | 2.39 |

## 2.54mm Pitch Headers -SMT

### Pin Headers - Gold Plated, 90°



Pitch = 2.54mm



Mfrs. List Nos.:  
Single row = M20-890xx05,

Double row = M20-891xx05,  
where xx = No. of ways

Contact rating 3A  
Contact resistance 20mΩ  
Proof voltage 500V rms  
Insulation resistance 5000MΩ  
Temperature range -40°C to +105°C

Housings Nylon 6T UL94V-0  
Contacts Brass  
Plating Gold

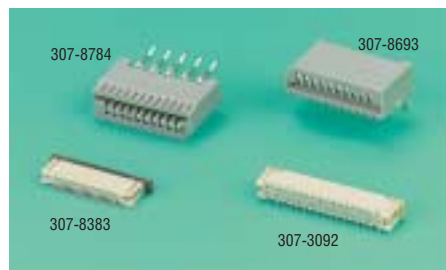
335247

| No. of Ways                | Order Code | 10+  | 50+  | 100+ | 250+ | 500+ |
|----------------------------|------------|------|------|------|------|------|
| <b>Single Row</b>          |            |      |      |      |      |      |
| <b>Order Multiple = 10</b> |            |      |      |      |      |      |
| 3                          | 486-122012 | 0.14 | 0.13 | 0.12 | 0.10 | 0.10 |
| 4                          | 486-123112 | 0.19 | 0.17 | 0.16 | 0.14 | 0.13 |
| 5                          | 486-124312 | 0.24 | 0.22 | 0.20 | 0.17 | 0.16 |
| 6                          | 486-125512 | 0.29 | 0.26 | 0.24 | 0.21 | 0.20 |
| 8                          | 486-126712 | 0.38 | 0.35 | 0.31 | 0.28 | 0.26 |
| 10                         | 486-127912 | 0.48 | 0.43 | 0.39 | 0.35 | 0.33 |
| 12                         | 486-128012 | 0.58 | 0.52 | 0.47 | 0.42 | 0.39 |
| <b>Order Multiple = 1</b>  |            |      |      |      |      |      |
| 20                         | 486-129212 | 0.96 | 0.86 | 0.79 | 0.70 | 0.65 |
| 25                         | 486-130912 | 1.20 | 1.08 | 0.98 | 0.87 | 0.82 |
| <b>Double Row</b>          |            |      |      |      |      |      |
| <b>Order Multiple = 10</b> |            |      |      |      |      |      |
| 3+3                        | 486-131012 | 0.35 | 0.31 | 0.29 | 0.25 | 0.24 |
| 4+4                        | 486-132212 | 0.47 | 0.42 | 0.38 | 0.34 | 0.32 |
| 5+5                        | 486-133412 | 0.58 | 0.52 | 0.48 | 0.42 | 0.40 |
| 6+6                        | 486-134612 | 0.70 | 0.63 | 0.57 | 0.51 | 0.48 |
| <b>Order Multiple = 1</b>  |            |      |      |      |      |      |
| 8+8                        | 486-135812 | 0.93 | 0.84 | 0.76 | 0.68 | 0.64 |
| 10+10                      | 486-136012 | 1.16 | 1.05 | 0.95 | 0.85 | 0.79 |
| 12+12                      | 486-137112 | 1.40 | 1.26 | 1.14 | 1.01 | 0.95 |
| 20+20                      | 486-138312 | 2.33 | 2.10 | 1.91 | 1.69 | 1.59 |
| 25+25                      | 486-139512 | 2.91 | 2.62 | 2.38 | 2.11 | 1.99 |

## Flat Flexible Cable and Printed Circuit Connectors

### FFC/FCP Connectors

0.5mm/1.0mm/1.25mm/2.54mm Pitch



- Top and bottom contact options
- Accommodates 0.3mm to 0.1mm FFC/FPC
- ZIF versions with secondary actuator
- Gas tight contact interface to the circuit

Contacts Phosphor Bronze Alloy  
Plating Tin-Lead

Contact resistance 20mΩ max  
Temperature range -20°C to +80°C

CP400

| Pack Quantity = 1                       |            |      |      |      |      |      |
|-----------------------------------------|------------|------|------|------|------|------|
| No. of Mfrs.                            | Order Code | 1+   | 25+  | 50+  | 100+ | 500+ |
| Ways List No.                           |            |      |      |      |      |      |
| <b>0.5mm ZIF R/A top contact SMT</b>    |            |      |      |      |      |      |
| 10 52745-1090                           | 307-830912 | 1.16 | 1.03 | 0.94 | 0.84 | 0.78 |
| 14 52745-1490                           | 307-831012 | 1.41 | 1.26 | 1.13 | 1.03 | 0.95 |
| 16 52745-1690                           | 307-832212 | 1.55 | 1.37 | 1.24 | 1.12 | 1.03 |
| 20 52745-2090                           | 307-833412 | 1.80 | 1.60 | 1.44 | 1.31 | 1.20 |
| 30 52435-3091                           | 307-834612 | 2.85 | 2.54 | 2.28 | 2.08 | 1.90 |
| <b>0.5mm ZIF R/A bottom contact SMT</b> |            |      |      |      |      |      |
| 10 52746-1090                           | 307-835812 | 1.16 | 1.03 | 0.94 | 0.84 | 0.78 |
| 14 52746-1490                           | 307-836012 | 1.41 | 1.26 | 1.13 | 1.03 | 0.95 |
| 16 52746-1690                           | 307-837112 | 1.55 | 1.37 | 1.24 | 1.12 | 1.03 |
| 20 52746-2090                           | 307-838312 | 1.80 | 1.60 | 1.44 | 1.31 | 1.20 |
| 30 52437-3091                           | 307-839512 | 3.00 | 2.66 | 2.40 | 2.18 | 2.00 |

| Pack Quantity = 1                       |            |       |       |       |       |       |
|-----------------------------------------|------------|-------|-------|-------|-------|-------|
| No. of Mfrs.                            | Order Code | 1+    | 25+   | 50+   | 100+  | 500+  |
| Ways List No.                           |            |       |       |       |       |       |
| <b>0.5mm ZIF straight SMT</b>           |            |       |       |       |       |       |
| 10 52559-1092                           | 307-840112 | 1.19  | 1.06  | 0.95  | 0.86  | 0.79  |
| 20 52559-2090                           | 307-841312 | 1.93  | 1.72  | 1.54  | 1.40  | 1.29  |
| 30 52559-3092                           | 307-842512 | 2.67  | 2.38  | 2.14  | 1.94  | 1.79  |
| <b>1.0mm ZIF R/A bottom contact SMT</b> |            |       |       |       |       |       |
| 10 52271-1090                           | 307-843712 | 0.69  | 0.60  | 0.54  | 0.50  | 0.46  |
| 14 52271-1490                           | 307-844912 | 0.81  | 0.72  | 0.64  | 0.59  | 0.54  |
| 16 52271-1690                           | 307-845012 | 0.87  | 0.77  | 0.70  | 0.63  | 0.58  |
| 18 52271-1890                           | 392-813512 | 0.92  | 0.84  | 0.75  | 0.68  | 0.62  |
| 20 52271-2090                           | 307-846212 | 1.00  | 0.88  | 0.80  | 0.73  | 0.67  |
| 26 52271-2690                           | 307-847412 | 1.20  | 1.06  | 0.96  | 0.86  | 0.79  |
| <b>1.0mm ZIF straight SMT</b>           |            |       |       |       |       |       |
| 10 52610-1090                           | 307-848612 | 1.22  | 1.08  | 0.98  | 0.88  | 0.81  |
| 18 52610-1890                           | 392-816012 | 1.60  | 1.42  | 1.28  | 1.15  | 1.06  |
| 20 52610-2090                           | 307-849812 | 1.98  | 1.76  | 1.58  | 1.44  | 1.31  |
| 26 52610-2690                           | 307-850412 | 2.42  | 2.15  | 1.93  | 1.76  | 1.61  |
| 30 52610-3090                           | 307-851612 | 3.83  | 3.40  | 3.07  | 2.79  | 2.55  |
| <b>1.25mm ZIF R/A through hole</b>      |            |       |       |       |       |       |
| 4 39-51-3043                            | 307-852812 | 0.31  | 0.28  | 0.25  | 0.23  | 0.21  |
| 6 39-51-3063                            | 307-853012 | 0.50  | 0.45  | 0.40  | 0.36  | 0.33  |
| 8 39-51-3083                            | 307-854112 | 0.53  | 0.47  | 0.43  | 0.38  | 0.35  |
| 10 39-51-3103                           | 307-855312 | 0.60  | 0.54  | 0.49  | 0.44  | 0.41  |
| 14 39-51-3143                           | 307-856512 | 0.77  | 0.69  | 0.61  | 0.56  | 0.51  |
| 16 39-51-3163                           | 307-857712 | 0.96  | 0.85  | 0.77  | 0.70  | 0.63  |
| 20 39-51-3203                           | 307-858912 | 1.02  | 0.90  | 0.82  | 0.74  | 0.68  |
| 30 39-51-3303                           | 307-859012 | 1.46  | 1.29  | 1.16  | 1.06  | 0.97  |
| <b>1.25mm ZIF straight through hole</b> |            |       |       |       |       |       |
| 4 39-51-3044                            | 307-860712 | 0.28  | 0.25  | 0.22  | 0.21  | 0.187 |
| 6 39-51-3064                            | 307-861912 | 0.36  | 0.32  | 0.29  | 0.26  | 0.24  |
| 10 39-51-3084                           | 307-862012 | 0.45  | 0.40  | 0.35  | 0.32  | 0.30  |
| 10 39-51-3104                           | 307-863212 | 0.53  | 0.48  | 0.43  | 0.38  | 0.35  |
| 14 39-51-3144                           | 307-864412 | 0.70  | 0.62  | 0.56  | 0.51  | 0.47  |
| 16 39-51-3164                           | 307-865612 | 0.79  | 0.70  | 0.62  | 0.57  | 0.52  |
| <b>1.25mm Non-ZIF R/A</b>               |            |       |       |       |       |       |
| 4 52044-0445                            | 307-866812 | 0.27  | 0.24  | 0.22  | 0.198 | 0.177 |
| 6 52044-0645                            | 307-867012 | 0.32  | 0.28  | 0.26  | 0.23  | 0.22  |
| 8 52044-0845                            | 307-868112 | 0.37  | 0.33  | 0.29  | 0.27  | 0.25  |
| 10 52044-1045                           | 307-869312 | 0.42  | 0.37  | 0.33  | 0.30  | 0.28  |
| 14 52044-1445                           | 307-870012 | 0.52  | 0.47  | 0.42  | 0.38  | 0.34  |
| 16 52044-1645                           | 307-871112 | 0.57  | 0.51  | 0.46  | 0.42  | 0.38  |
| 20 52044-2045                           | 307-872312 | 0.68  | 0.60  | 0.54  | 0.49  | 0.45  |
| 30 52044-3045                           | 307-873512 | 0.93  | 0.82  | 0.74  | 0.68  | 0.61  |
| 40 52044-4045                           | 307-874712 | 1.97  | 1.75  | 1.57  | 1.42  | 1.31  |
| <b>1.25mm Non-ZIF straight</b>          |            |       |       |       |       |       |
| 4 52045-0445                            | 307-875912 | 0.25  | 0.22  | 0.198 | 0.177 | 0.166 |
| 6 52045-0645                            | 307-876012 | 0.25  | 0.22  | 0.198 | 0.177 | 0.166 |
| 8 52045-0845                            | 307-877212 | 0.53  | 0.48  | 0.43  | 0.38  | 0.35  |
| 10 52045-1045                           | 307-878412 | 0.187 | 0.166 | 0.146 | 0.135 | 0.125 |
| 14 52045-1445                           | 307-879612 | 0.28  | 0.25  | 0.23  | 0.21  | 0.187 |
| 16 52045-1645                           | 307-880212 | 0.52  | 0.47  | 0.42  | 0.38  | 0.34  |
| 20 52045-2045                           | 307-881412 | 0.61  | 0.54  | 0.49  | 0.45  | 0.41  |
| 30 52045-3045                           | 307-882612 | 0.69  | 0.61  | 0.55  | 0.50  | 0.46  |
| 40 52045-4045                           | 307-883812 | 0.87  | 0.78  | 0.70  | 0.63  | 0.58  |



## Flat Flexible Cable

0.5mm, 1.0mm and 1.25 Pitch

multicomp



- Flat flexible cable for use with FFC/ FCP range of connectors
- Reinforcing tape bonded to underside for cable to ensure easy and accurate insertion into the connector
- Overall length 210mm

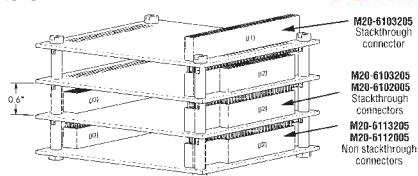
Insulation Material Polyester (Flame Resistant) Max operating temperature 80°C CP415

| No. of Ways           | Order Code | 1+   | 25+  | 50+  | 100+ | 250+ |
|-----------------------|------------|------|------|------|------|------|
| <b>0.5mm Pitch</b>    |            |      |      |      |      |      |
| 10                    | 329-500012 | 1.24 | 1.12 | 1.06 | 1.00 | 0.97 |
| 14                    | 329-501112 | 1.10 | 0.98 | 0.92 | 0.86 | 0.83 |
| 16                    | 329-502312 | 1.25 | 1.17 | 1.09 | 1.05 | 0.99 |
| 20                    | 329-503512 | 1.37 | 1.22 | 1.18 | 1.14 | 1.08 |
| 24                    | 335-264012 | 1.52 | 1.37 | 1.27 | 1.16 | 1.09 |
| 30                    | 329-504712 | 1.75 | 1.61 | 1.53 | 1.45 | 1.37 |
| 35                    | 335-265112 | 1.84 | 1.70 | 1.63 | 1.47 | 1.40 |
| 40                    | 335-266312 | 2.09 | 1.82 | 1.67 | 1.54 | 1.47 |
| 45                    | 335-267512 | 2.14 | 1.87 | 1.72 | 1.58 | 1.53 |
| 50                    | 335-268712 | 2.19 | 1.91 | 1.77 | 1.63 | 1.58 |
| <b>mm1mm Pitch</b>    |            |      |      |      |      |      |
| 10                    | 329-505912 | 0.56 | 0.51 | 0.49 | 0.43 | 0.39 |
| 14                    | 329-506012 | 0.61 | 0.56 | 0.54 | 0.52 | 0.49 |
| 16                    | 329-507212 | 0.68 | 0.63 | 0.61 | 0.59 | 0.57 |
| 20                    | 329-508412 | 0.80 | 0.74 | 0.72 | 0.70 | 0.68 |
| 26                    | 329-509612 | 0.97 | 0.92 | 0.90 | 0.87 | 0.83 |
| 30                    | 329-510212 | 1.26 | 1.21 | 1.18 | 1.11 | 1.05 |
| <b>mm1.25mm Pitch</b> |            |      |      |      |      |      |
| 4                     | 329-511412 | 0.39 | 0.36 | 0.35 | 0.33 | 0.31 |
| 6                     | 329-512612 | 0.41 | 0.39 | 0.38 | 0.36 | 0.34 |
| 8                     | 329-513812 | 0.45 | 0.41 | 0.39 | 0.37 | 0.35 |
| 10                    | 329-514012 | 0.48 | 0.44 | 0.43 | 0.41 | 0.38 |
| 14                    | 329-515112 | 0.56 | 0.50 | 0.48 | 0.45 | 0.42 |
| 16                    | 329-516312 | 0.61 | 0.55 | 0.53 | 0.50 | 0.47 |
| 20                    | 329-517512 | 0.96 | 0.88 | 0.86 | 0.81 | 0.77 |
| 30                    | 329-518712 | 1.22 | 1.10 | 1.06 | 1.01 | 0.95 |
| 40                    | 329-570912 | 1.92 | 1.75 | 1.71 | 1.62 | 1.54 |

## PC/104 Connectors

## Bus Connectors

HARWIN



- PC/104 Plus is an industry standard for PC applications
- Embedded systems designers can reduce costs risks and lead times
- Dedicated and embedded PC architecture is an accepted platform for:
  - Vending Machines
  - Medical equipment
  - Laboratory instruments
  - Test equipment
  - Communication devices

PC/104 and the PC/104 logo are trademarks of the PC/104 consortium.

CP390

## Bus Connectors

HARWIN



- 32+32 way supports an 8-bit system
- 20+20 way combined with a 32+32 way supports a 16-bit system
- 4 x 30, 120 way available, 2.00mm pitch

- Press-Fit versions eliminate costly hand soldering and allow board rework

|                       |                 |                          |                                |
|-----------------------|-----------------|--------------------------|--------------------------------|
| Current rating        | 1A              | Housings                 | Glass Filled Polyester UL94V-0 |
| Voltage proof         | 1000V ac        | Contacts                 | Phosphor Bronze                |
| Contact Resistance    | 10mΩ max        | Finish                   | Gold Flash Over Nickel         |
| Insulation resistance | 5000 MΩ min.    | Average insertion force  | 103.2g (1N) per contact        |
| Temperature range     | -55°C to +105°C | Average withdrawal force | 71.5g (0.7N) per contact       |

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335250

| No. of Ways                       | Mfrs. List No. | Order Code | 1+    | 10+   | 100+  |
|-----------------------------------|----------------|------------|-------|-------|-------|
| <b>Stackthrough</b>               |                |            |       |       |       |
| 40                                | M20F6102005    | 359-90712  | 2.02  | 1.80  | 1.63  |
| 64                                | M20F6103205    | 359-95612  | 2.94  | 2.61  | 2.37  |
| <b>Stackthrough Press-Fit</b>     |                |            |       |       |       |
| 40                                | M20-6152005    | 486-140112 | 7.34  | 6.61  | 6.01  |
| 64                                | M20-6153205    | 486-141312 | 8.01  | 7.21  | 6.55  |
| 120                               | M22-6053005    | 486-144912 | 20.87 | 18.78 | 17.07 |
| <b>Non-Stackthrough</b>           |                |            |       |       |       |
| 40                                | M20F6112005    | 359-97012  | 1.91  | 1.70  | 1.54  |
| 64                                | M20F6113205    | 359-99312  | 2.50  | 2.23  | 2.02  |
| <b>Non-Stackthrough Press-Fit</b> |                |            |       |       |       |
| 40                                | M20-6162005    | 486-142512 | 4.32  | 3.88  | 3.53  |
| 64                                | M20-6163205    | 486-143712 | 6.47  | 5.83  | 5.30  |
| 120                               | M22-6063005    | 486-145012 | 18.49 | 16.64 | 15.13 |

## PCB Connector System

## Stocko Connector System

RFK2 Series

STOCKO

New



- 2.5mm pitch single in line, through hole vertical PCB Headers and Sockets
- A Rugged IDC or Discrete wire connector system.
- Latching mechanism gives secure "lock in" between header and socket and prevents backout occurring

|                           |                 |           |                                   |
|---------------------------|-----------------|-----------|-----------------------------------|
| Maximum Voltage           | 1500V ac        | Housing   | PC - VO                           |
| Working Temperature Range | -20°C to 120°C  | Pitch     | 2.5mm                             |
| Contact plating           | Tin             | Wire size | 24AWG Stranded or solid conductor |
| Contact Material          | Phosphor Bronze |           |                                   |

333935

| No of Ways.         | Mfrs. List No.     | Order Code | 1+   | 10+  | 50+  | 100+ |
|---------------------|--------------------|------------|------|------|------|------|
| <b>2.5mm Socket</b> |                    |            |      |      |      |      |
| 2                   | MKFL13262-6-0-202  | 439-786112 | 2.92 | 2.76 | 2.60 | 2.43 |
| 3                   | MKFL13263-6-0-303  | 439-787312 | 2.66 | 2.52 | 2.37 | 2.22 |
| 4                   | MKFL13264-6-0-404  | 439-788512 | 3.40 | 3.21 | 3.02 | 2.83 |
| 5                   | MKFL13265-6-0-505  | 439-789712 | 3.64 | 3.43 | 3.23 | 3.03 |
| 6                   | MKFL13266-6-0-606  | 439-790312 | 4.20 | 3.96 | 3.73 | 3.50 |
| 7                   | MKFL13267-6-0-707  | 439-791512 | 4.58 | 4.32 | 4.07 | 3.82 |
| 8                   | MKFL13268-6-0-808  | 439-792712 | 4.78 | 4.52 | 4.25 | 3.98 |
| 9                   | MKFL13269-6-0-909  | 439-793912 | 5.04 | 4.76 | 4.48 | 4.20 |
| 10                  | MKFL13270-6-0-1010 | 439-794012 | 5.62 | 5.30 | 4.99 | 4.68 |
| <b>PCB Header</b>   |                    |            |      |      |      |      |
| 2                   | MKS1851-6-0-202    | 439-795212 | 1.56 | 1.48 | 1.39 | 1.30 |
| 3                   | MKS1853-6-0-303    | 439-796412 | 1.50 | 1.41 | 1.33 | 1.25 |
| 4                   | MKS1854-6-0-404    | 439-797612 | 1.62 | 1.53 | 1.44 | 1.35 |
| 5                   | MKS1855-6-0-505    | 439-798812 | 1.78 | 1.68 | 1.58 | 1.48 |
| 6                   | MKS1856-6-0-606    | 439-799012 | 1.98 | 1.87 | 1.76 | 1.65 |
| 7                   | MKS1857-6-0-707    | 439-800212 | 2.32 | 2.19 | 2.06 | 1.93 |
| 8                   | MKS1858-6-0-808    | 439-801412 | 2.58 | 2.43 | 2.29 | 2.15 |
| 9                   | MKS1859-6-0-909    | 439-802612 | 2.66 | 2.52 | 2.37 | 2.22 |
| 10                  | MKS1860-6-0-1010   | 439-803812 | 2.74 | 2.58 | 2.43 | 2.28 |

## PCB Connector System - continued

### Card Edge Socket



- Card edge connector eliminates the need for a PCB mounted header
- 2.5mm pitch single in line, through hole vertical PCB Headers and Sockets
- A Rugged IDC or Discrete wire connector system.

1500V ac

New

Maximum Voltage 1500V ac  
Working Temperature Range -20°C to 120°C  
Contact plating Tin  
Contact Material Phosphor Bronze

Housing PC - VO  
Pitch 2.5mm  
Wire size 24AWG Stranded or solid conductor

333936

| 10 Per Pack |                    | Price per Pack |      |      |      |      |
|-------------|--------------------|----------------|------|------|------|------|
| No. Poles   | Mfrs. List No.     | Order Code     | 1+   | 10+  | 50+  | 100+ |
| 3           | MKFL13473-6-0-303  | 439-804012     | 3.38 | 3.20 | 3.01 | 2.82 |
| 4           | MKFL13474-6-0-404  | 439-805112     | 3.88 | 3.67 | 3.45 | 3.23 |
| 5           | MKFL13475-6-0-505  | 439-806312     | 4.20 | 3.96 | 3.73 | 3.50 |
| 6           | MKFL13476-6-0-606  | 439-807512     | 4.42 | 4.18 | 3.93 | 3.68 |
| 7           | MKFL13477-6-0-707  | 439-808712     | 4.78 | 4.52 | 4.25 | 3.98 |
| 8           | MKFL13478-6-0-808  | 439-809912     | 5.08 | 4.79 | 4.51 | 4.23 |
| 10          | MKFL13480-6-0-1010 | 439-810512     | 5.70 | 5.39 | 5.07 | 4.75 |

## Shorting Link

### Shorting Link, Surface Mount



L = 12.3, W = 1.8 (2.35 including standoffs), H = 1.8

- Designed to link PCB tracks where through hole links are not possible
- Easy Placement
- High current
- Small footprint

Material Copper Alloy  
Finish Tin/Lead Plated

335251

| 100 per Pack |  | Price Per Pack |      |      |      |
|--------------|--|----------------|------|------|------|
| Order Code   |  | 1+             | 10+  | 50+  | 100+ |
| 486-147412   |  | 6.59           | 5.93 | 5.39 | 4.78 |

## Test Point

### Surface Mount



- Ideal for use with most standard probes, clips and hooks
- Suitable for automatic or manual test
- Improved finished goods quality
- Strong and durable

Material Copper Alloy  
Finish Tin/Lead Plated

L = 3.25, W = 2.05, H = 2

335252

| 100 per Pack |  | Price Per Pack |      |      |      |
|--------------|--|----------------|------|------|------|
| Order Code   |  | 1+             | 10+  | 50+  | 100+ |
| 486-146212   |  | 6.57           | 5.91 | 5.37 | 4.77 |

## PCB Terminal Blocks

### Rising Clamp Interlocking 16A

5mm Pitch



2.5mm<sup>2</sup>  
cable  
entry

H=16, W=9.5, Pitch=5, Pin dia=1.1

Maximum voltage 250V ac  
Current rating 16A  
Temperature range -40°C to +125°C  
Rising cable clamp Steel zinc plated

Clamping screw M3 steel zinc plated  
Housing Polyamide UL94V-0  
Colour Light Grey  
Maximum wire size 2.5mm<sup>2</sup>

Mfrs. List No. 819/x, where x= No. of ways

209401

| Order Multiple = 5 |           | Price Each |      |      |      |      |
|--------------------|-----------|------------|------|------|------|------|
| No of Ways         | Length mm | Order Code | 5+   | 50+  | 100+ | 500+ |
| 2                  | 10        | 151-79412  | 0.38 | 0.31 | 0.26 | 0.22 |
| 3                  | 15        | 151-79512  | 0.55 | 0.47 | 0.40 | 0.34 |
| 4                  | 20.5      | 151-79612  | 0.74 | 0.62 | 0.52 | 0.44 |
| 6                  | 30.5      | 151-79712  | 1.09 | 0.94 | 0.80 | 0.64 |
| 8                  | 40.9      | 469-86512  | 1.56 | 1.32 | 1.11 | 0.94 |
| 10                 | 50.9      | 469-87712  | 1.96 | 1.67 | 1.40 | 1.18 |
| 12                 | 61.5      | 151-79812  | 2.18 | 1.84 | 1.53 | 1.29 |

## IEC Inlets

### Power Entry Module

6200 Series - Medical Grade



- Screw mounting, 2 x M3
- Shock safe 1 pole fuseholder, 5 x 20mm
- Plug removal necessary for fuse link replacement
- Protection Class 1, Pin Temp 70°C
- Complies to IEC 60320-1 & EN 6032-1 C14/C15
- 4.8 x 0.8mm or 6.3 x 0.8mm terminals
- Approvals. SEV, VDE, SEMKO, UL, CSA, OVE

Panel cut out 27.5mm x 30.5mm  
Depth behind front panel 23.5mm

Contact rating 10A  
Voltage rating 250V ac  
Contact resistance 5mΩ

Contact rating 10A  
Temperature range -25°C To + 70°C  
Housing material

236892

| Mfrs.     |           | Price Each |      |      |      |
|-----------|-----------|------------|------|------|------|
| List No.  | Terminals | Order Code | 1+   | 10+  | 50+  |
| 6200.2200 | 4.8 x 0.8 | 307-689112 | 1.64 | 1.09 | 0.92 |
| 6200.2300 | 6.3 x 0.8 | 307-690812 | 1.64 | 1.09 | 0.92 |

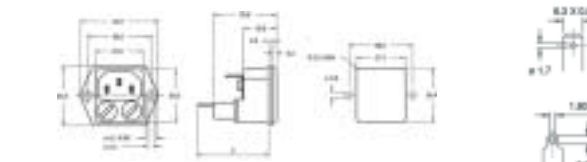
### Power Entry Module

Series 4707



- Panel Mount : Screw on version, Front or rear mounting
- Appliance inlet, Fuse holder takes fuse size 5 x20 mm

New



Voltage Rating 250V  
Current Rating 10A  
Terminals Solder or quick connect 6.35x0.8  
Fuseholder 1- or 2-pole, Shocksafe category PC2

333928

| Description         |  | Mfrs list No. | Order Code | 1+   | 10+  | 25+  | 50+  |
|---------------------|--|---------------|------------|------|------|------|------|
| 1pol. Quick connect |  | 4707.1000     | 472-499912 | 6.85 | 6.19 | 5.65 | 5.65 |
| 1pol. Solder joint  |  | 4707.1300     | 472-500112 | 6.85 | 6.19 | 5.65 | 5.65 |
| 2pol. Quick connect |  | 4707.2000     | 443-084012 | 6.85 | 6.19 | 5.65 | 5.65 |
| 2pol. Solder joint  |  | 4707.2300     | 472-502512 | 6.85 | 6.19 | 5.65 | 5.65 |

