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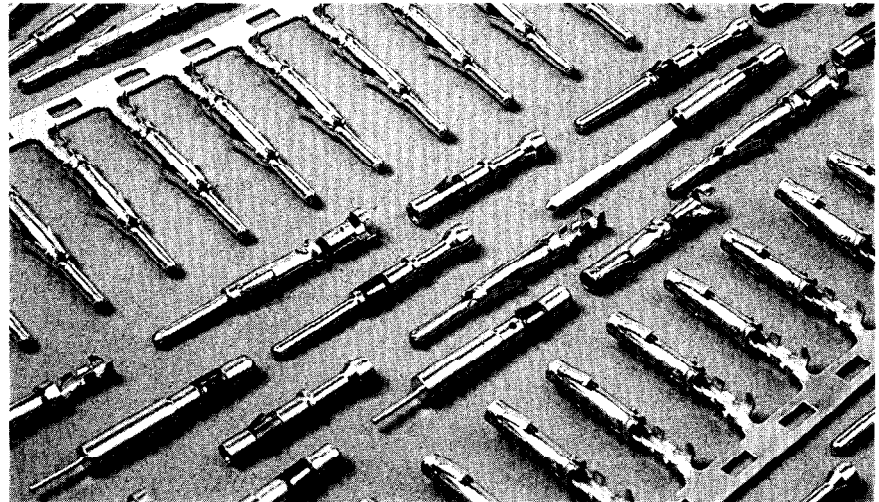


## FEATURES

- All contacts can be used with any of the Trident mouldings in this catalogue.

The Trident Connector System offers the flexibility and diversity required by today's designers. One of the keys to the system is the range of contacts offered. Stamped and formed pins and sockets are available in one and two part format to cover most applications. Machined pins and sockets offer a rugged contact where a higher reliability is required.

- Comprehensive range of wire sizes
- Common extraction tool for all contacts
- No insertion tools required - tactile and audible sensing of full contact insertion in moulding
- Selection of performance options available
- Full range of crimp tooling
- Recognised under the Underwriters Laboratory (UL) component programme
- **The 3 part machined socket contact now incorporates the new "Starclip" design inner spring. This features six contact points for mating with the pin, giving good electrical performance.**



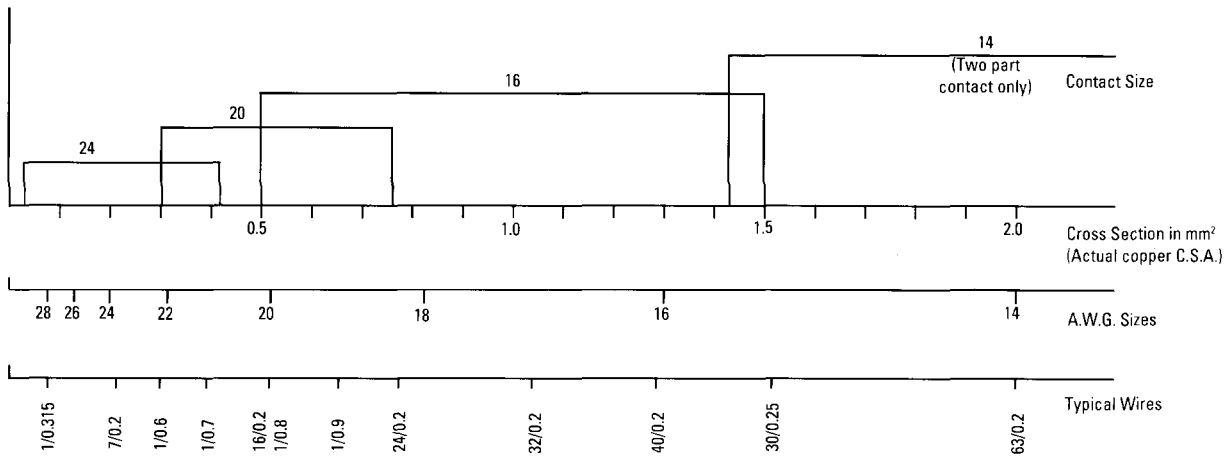
## TECHNICAL PERFORMANCE OF THE TRIDENT CONTACT RANGE

| Characteristics              | Performance         |                 |                 |
|------------------------------|---------------------|-----------------|-----------------|
|                              | Three part machined | Two part formed | One part formed |
| Materials - body             | Brass               | Brass           | Brass           |
| - spring members             | Beryllium copper    | Brass           | Integral        |
| Current Rating               | 13 A                | 13 A            | 5 A             |
| Contact Resistance (Initial) | 5 m ohms            | 5 m ohms        | 5 m ohms        |
| Mechanical Endurance         | 500 insertions      | 200 insertions  | 50 insertions   |

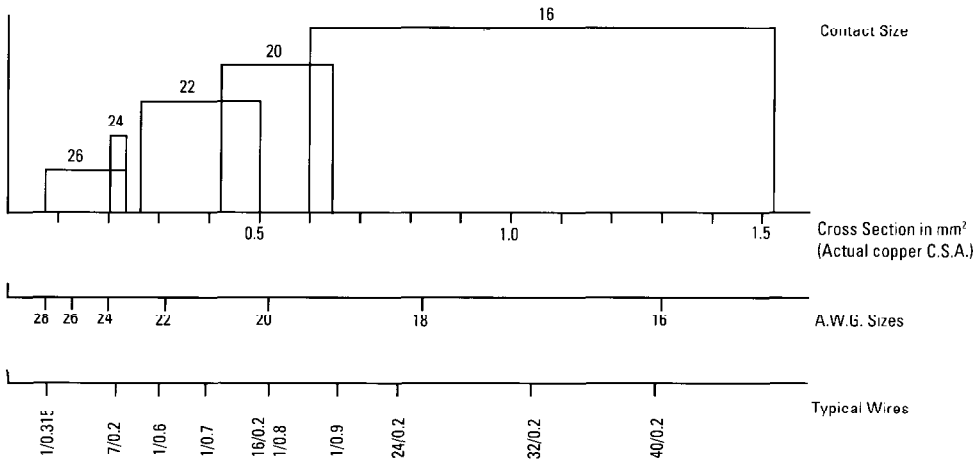
## PLATING SPECIFICATION - CONTACTING AREA ONLY

| Description     | Contact Type        |                 |                 | Ordering Code |
|-----------------|---------------------|-----------------|-----------------|---------------|
|                 | Three part machined | Two part formed | One part formed |               |
| 3 microns gold  | ✓                   |                 |                 | X             |
| 1 micron gold   | ✓<br>(Socket only)  | ✓               |                 | Y             |
| 0.4 micron gold | ✓<br>(Pin only)     |                 |                 | Y             |
| Gold flash      | ✓                   | ✓               |                 | Z             |
| Tin             | ✓                   | ✓               | ✓               | T             |

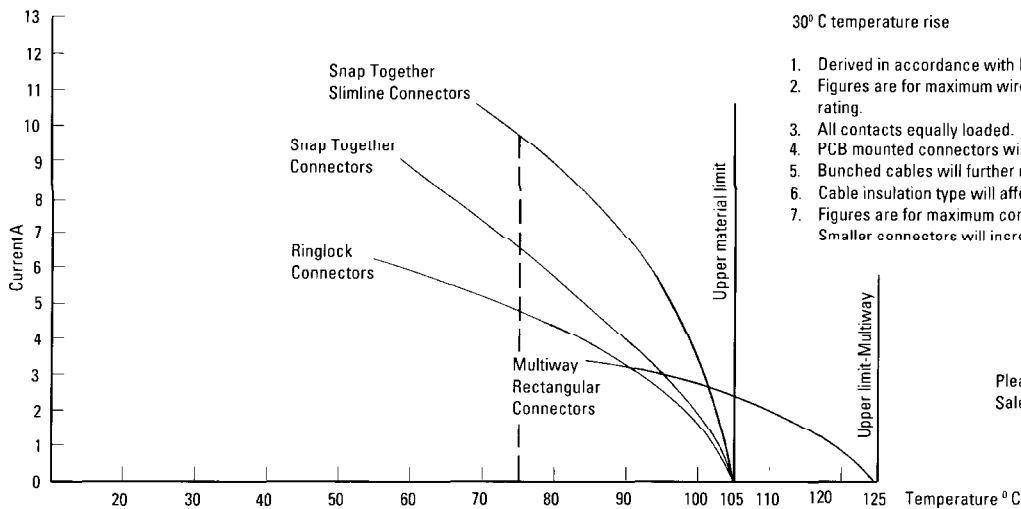
## CHOICE OF CONTACT SIZE - ONE AND TWO PART



## CHOICE OF CONTACT SIZE - THREE PART



## CURRENT RATING CURVES



**ONE PART FORMED CONTACTS**

- Low cost contacts for non critical applications
- Made from copper alloy with a tin plating
- Integral contact and retention spring
- Available in reels of 3000 or loose in bags of 100
- Full support tooling available

Size 20 to 24 with insulation grip



Size 16 with insulation grip

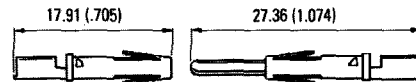


| Contact Size AWG | Wire Range mm <sup>2</sup> | Insulation diameter | Strip length                 | Contact description | Order Code Pack of 100 | Order Code Reel of 3000 |
|------------------|----------------------------|---------------------|------------------------------|---------------------|------------------------|-------------------------|
| 24               | .08                        | .89 (.035)          | 3.95 (.155)<br>± 0.25 (.009) | Pin                 | 192922-1370            | 192990-2580             |
|                  | .41                        | 1.58 (.062)         |                              | Socket              | 192922-1380            | 192990-2610             |
| 20               | .30                        | 1.17 (.046)         |                              | Pin                 | 192922-1390            | 192990-2570             |
|                  | .75                        | 2.08 (.081)         |                              | Socket              | 192922-1400            | 192990-2600             |
| 16               | .50                        | 2.00 (.078)         |                              | Pin                 | 192922-1410            | 192990-2560             |
|                  | 1.50                       | 3.00 (.118)         |                              | Socket              | 192922-1420            | 192990-2590             |

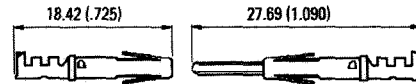
**TWO PART FORMED CONTACTS**

- Three plating styles available
- Separate retention spring
- Up to 200 mating cycles
- Wide range of wire sizes
- Full support tooling available

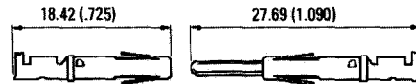
Size 14 no insulation grip



Size 20 to 26 with insulation grip



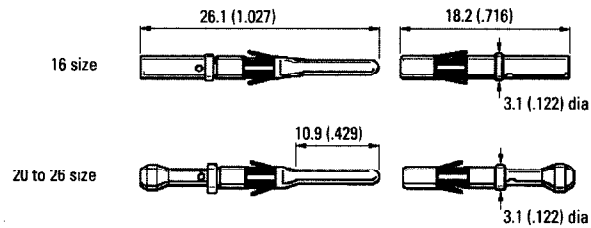
Size 16 with insulation grip



| Contact Size AWG | Wire Range mm <sup>2</sup> | Insulation diameter | Contact description | Order Code Pack of 100 Tin plating | Order Code Pack of 100 Gold flash | Order Code Pack of 100 Plating Code Y | Order Code Reel of 3000 Tin plating | Order Code Reel of 3000 Gold flash | Order Code Reel of 3000 Plating Code Y |
|------------------|----------------------------|---------------------|---------------------|------------------------------------|-----------------------------------|---------------------------------------|-------------------------------------|------------------------------------|--|
| 24               | .08                        | .89 (.035)          | Pin                 | 192990-0020                        | 192990-0080                       | 192900-0448                           | 192990-2510                         | 192990-2650                        | 192900-0406                            |
|                  | .41                        | 1.58 (.062)         | Socket              | 192990-0030                        | 192990-0090                       | 192900-0452                           | 192990-2550                         | 192990-2690                        | 192900-0410                            |
| 20               | .30                        | 1.17 (.046)         | Pin                 | 192990-0040                        | 192922-1460                       | 192900-0447                           | 192990-2500                         | 192990-2640                        | 192900-0405                            |
|                  | .75                        | 2.08 (.081)         | Socket              | 192990-0050                        | 192922-1470                       | 192900-0451                           | 192990-2540                         | 192990-2680                        | 192900-0409                            |
| 16               | .50                        | 2.00 (.078)         | Pin                 | 192990-0060                        | 192990-0100                       | 192900-0446                           | 192990-2490                         | 192990-2630                        | 192900-0404                            |
|                  | 1.50                       | 3.00 (.118)         | Socket              | 192990-0070                        | 192990-0110                       | 192900-0450                           | 192990-2530                         | 192990-2670                        | 192900-0408                            |
| 14               | 1.50                       | No ins. grip        | Pin                 | 192990-1240                        | 192990-1220                       | 192900-0445                           | 192990-2480                         | 192990-2620                        | 192900-0403                            |
|                  | 2.50                       |                     | Socket              | 192990-1250                        | 192990-1230                       | 192900-0449                           | 192990-2520                         | 192990-2660                        | 192900-0407                            |

## THREE PART MACHINED CONTACTS

- Separate contact and retention spring
- Up to 500 mating cycles
- Variety of plating options
- Choice of termination styles
- Full support tooling available



### CONTACTS (TURNED) COLOUR CODED TO UK STANDARDS - CRIMP BODIES

Insulation strip length-5.08 (.200) ±.25 (.009) except 16 AWG-7.11 (.279) ±.25 (.009)

| Contact Size AWG | Wire Range mm <sup>2</sup> | Insulation diameter | Colour code | Contact description | Order Code Pack of 100 Plating code X | Order Code Pack of 100 Plating code Y | Order Code Pack of 100 Plating code Z | Order Code Pack of 100 Plating code T |
|------------------|----------------------------|---------------------|-------------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| 26               | .08                        | .90 (.035)          | Black       | Pin                 | 192991-0101                           | 192991-0100                           | 192991-0099                           | 192991-0102                           |
|                  | .23                        | 1.40 (.055)         |             | Socket              | 192991-0054                           | 192991-0042                           | 192991-0036                           | 192991-0048                           |
| 24               | .20                        | 1.05 (.041)         | Blue        | Pin                 | 192991-0093                           | 192991-0092                           | 192991-0091                           | 192991-0094                           |
|                  | .24                        | 1.60 (.062)         |             | Socket              | 192991-0055                           | 192991-0043                           | 192991-0037                           | 192991-0049                           |
| 22               | .25                        | 1.60 (.062)         | Red         | Pin                 | 192991-0097                           | 192991-0096                           | 192991-0095                           | 192991-0098                           |
|                  | .50                        | 2.15 (.084)         |             | Socket              | 192991-0056                           | 192991-0044                           | 192991-0038                           | 192991-0050                           |
| 20               | .44                        | 1.30 (.051)         | Green       | Pin                 | 192991-0129                           | 192991-0128                           | 192991-0127                           | 192991-0130                           |
|                  | .64                        | 1.80 (.070)         |             | Socket              | 192991-0057                           | 192991-0045                           | 192991-0039                           | 192991-0051                           |
| 20               | .44                        | 1.60 (.062)         | Green       | Pin                 | 192991-0089                           | 192991-0088                           | 192991-0087                           | 192991-0090                           |
|                  | .64                        | 2.10 (.082)         |             | Socket              | 192991-0058                           | 192991-0046                           | 192991-0040                           | 192991-0052                           |
| 16               | .60                        | No ins. grip        | Black       | Pin                 | 192991-0085                           | 192991-0084                           | 192991-0083                           | 192991-0086                           |
|                  | 1.51                       |                     |             | Socket              | 192991-0059                           | 192991-0047                           | 192991-0041                           | 192991-0053                           |

### CONTACTS COLOUR CODED TO EUROPEAN STANDARDS - CRIMP BODIES

Insulation strip length-5.08 (.200) ±.25 (.009) except 16 AWG-7.11 (.279) ±.25 (.009)

| Contact Size AWG | Wire Range mm <sup>2</sup> | Insulation diameter | Colour code | Contact description | Order Code Pack of 100 Plating code X | Order Code Pack of 100 Plating code Y | Order Code Pack of 100 Plating code Z | Order Code Pack of 100 Plating code T |
|------------------|----------------------------|---------------------|-------------|---------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| * 26             | .08                        | .90 (.035)          | Black       | Pin                 | 192991-0101                           | 192991-0100                           | 192991-0099                           | 192991-0102                           |
|                  | .23                        | 1.40 (.055)         |             | Socket              | 192991-0054                           | 192991-0042                           | 192991-0036                           | 192991-0048                           |
| 24               | .20                        | 1.05 (.041)         | Red         | Pin                 | 192991-0153                           | 192991-0152                           | 192991-0151                           | 192991-0154                           |
|                  | .24                        | 1.60 (.062)         |             | Socket              | 192991-0140                           | 192991-0075                           | 192991-0071                           | 192991-0156                           |
| 20               | .44                        | 1.60 (.062)         | Blue        | Pin                 | 192991-0137                           | 192991-0136                           | 192991-0135                           | 192991-0138                           |
|                  | .64                        | 2.10 (.082)         |             | Socket              | 192991-0141                           | 192991-0076                           | 192991-0072                           | 192991-0157                           |
| 16               | .60                        | No ins. grip        | Green       | Pin                 | 192991-0133                           | 192991-0132                           | 192991-0131                           | 192991-0134                           |
|                  | 1.51                       |                     |             | Socket              | 192991-0142                           | 192991-0077                           | 192991-0073                           | 192991-0158                           |

\* Identical to UK colour coded items