



## The plastic circular connector with metal locking

**UTG provides the complete answer to the need for economical lightweight and robust metal coupling**

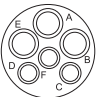
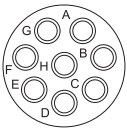
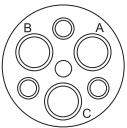
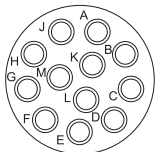
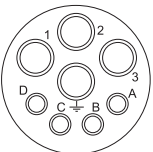
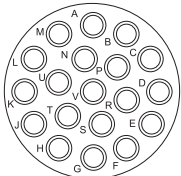
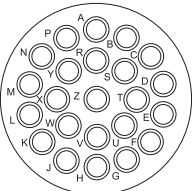
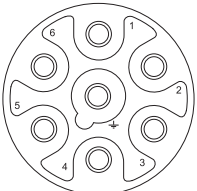
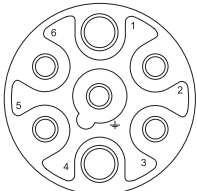
**Flammability rating** ■ UL94-V0 compliant

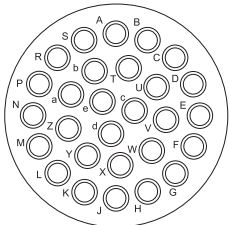
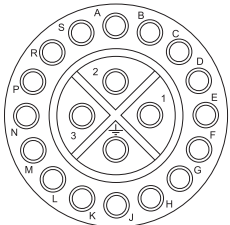
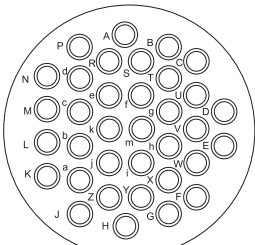
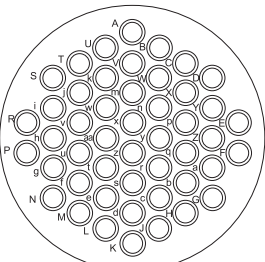
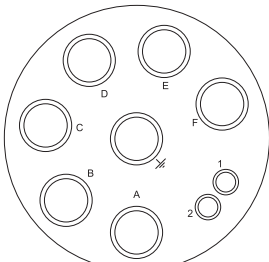
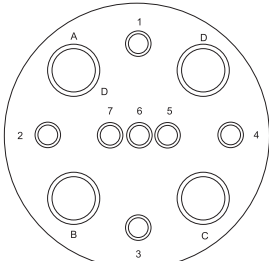
**Rapid and secure locking** ■ Locks with audible positive «click»

**Intermateable and interchangeable** ■ With UTO, UTP and UTS series

**Complete range of contacts** ■ Trim Trio contacts #16

## Layout

| Shell size | Contact # 16 (Ø 1,6)                                                                                                  | Mixed power / signal versions                                                                                                             |                                                                                                                                              |
|------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 10         |  <p>10-4<br/>4 x #16 (Ø 1,6)</p>     |  <p>10-3<br/>3 x #16 (Ø 1,6)<br/>Group C 250V</p>      |  <p>10-3W3<br/>3 x #16 (Ø 1,6)<br/>3 x #20 (Ø 1,0)</p>    |
| 12         |  <p>12-8<br/>8 x #16 (Ø 1,6)</p>     |  <p>122G1<br/>3 x #12 (Ø 2,4)</p>                      |                                                                                                                                              |
| 14         |  <p>14-12<br/>12 x #16 (Ø 1,6)</p> |  <p>14-8<br/>4 x #12 (Ø 2,4)<br/>4 x #16 (Ø 1,6)</p> |                                                                                                                                              |
| 16         |  <p>16-19<br/>19 x #16 (Ø 1,6)</p> |                                                                                                                                           |                                                                                                                                              |
| 18         |  <p>18-23<br/>23 x #16 (Ø 1,6)</p> |  <p>18-7<br/>Group C 380V<br/>7 x #16 (Ø 1,6)</p>     |  <p>18-7 34<br/>2 x #12 (Ø 2,4)<br/>5 x #16 (Ø 1,6)</p> |

| Shell size | Contact # 16 (Ø 1,6)                                                                                                  | Mixed power / signal versions                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 20         |  <p>20-28<br/>28 x #16 (Ø 1,6)</p>   |  <p>20-20<br/>20 x #16 (Ø 1,6)<br/>Group C 660V</p>    |
| 22         |  <p>22-35<br/>35 x #16 (Ø 1,6)</p>  |                                                                                                                                           |
| 24         |  <p>24-48<br/>48 x #16 (Ø 1,6)</p> |  <p>24-7<br/>7 x #8 (Ø 3,6)<br/>2 x #16 (Ø 1,6)</p>  |
|            |                                                                                                                       |  <p>24-11<br/>4 x #8 (Ø 3,6)<br/>7 x #16 (Ø 1,6)</p> |

Contact identification positions shown are for mating face of pin contact connectors and wire face of socket contact connectors.



## Specifications

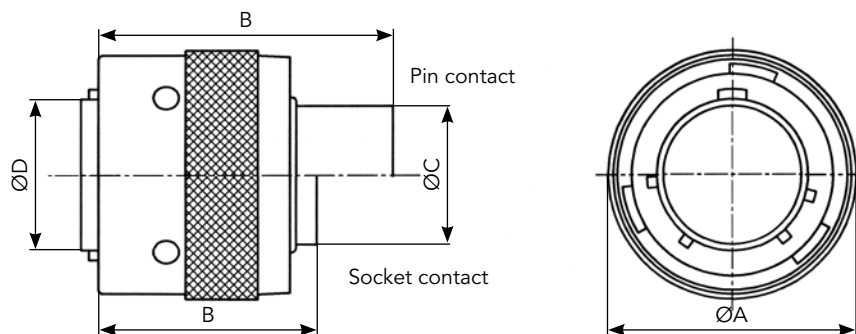
| Shell size | Contacts number* | Connector type / Part number |               |                           |               |
|------------|------------------|------------------------------|---------------|---------------------------|---------------|
|            |                  | Cable plug                   |               | Panel mounting receptacle |               |
|            |                  | Male insert                  | Female insert | Male insert               | Female insert |
| 10         | 4 #16            | UTG6104PN                    | UTG6104SN     | UTG0104P                  | UTG0104S      |
|            | 2 + ground #16   | UTG6103PN                    | UTG6103SN     | UTG0103P                  | UTG0103S      |
|            | 3 #20 + 3 #16    | UTG6103W3PN                  | -             | -                         | -             |
| 12         | 8 #16            | UTG6128PN                    | UTG6128SN     | UTG0128P                  | UTG0128S      |
|            | 3 #12            | UTG6122G1PN                  | UTG6122G1SN   | UTG0122G1P                | UTG0122G1S    |
| 14         | 12 #16           | UTG61412PN                   | UTG61412SN    | UTG01412P                 | UTG01412S     |
|            | 4#12 + 4 #16     | -                            | UTG6148SN     | UTG0148P                  | -             |
| 16         | 19 #16           | UTG61619PN                   | UTG61619SN    | UTG01619P                 | UTG01619S     |
| 18         | 23 #16           | UTG61823PN                   | UTG61823SN    | UTG01823P                 | UTG01823S     |
|            | 7 #16            | UTG6187PN                    | UTG6187SN     | UTG0187P                  | UTG0187S      |
|            | 2 #12 + 5 #16    | UTG6187PN34                  | UTG6187SN34   | UTG0187P34                | UTG0187S34    |
| 20         | 28 #16           | UTG62028PN                   | UTG62028SN    | UTG02028P                 | UTG02028S     |
|            | 20 #16           | UTG62020PN                   | UTG62020SN    | UTG02020P                 | UTG02020S     |
| 22         | 35 #16           | UTG62235PN                   | UTG62235SN    | UTG02235P                 | UTG02235S     |
| 24         | 48 #16           | UTG62448PN                   | UTG62448SN    | UTG02448P                 | UTG02448S     |
|            | 7 #8 + 2 #16     | UTG6247PN                    | UTG6247SN     | UTG0247P                  | UTG0247S      |
|            | 4 #8 + 7 #16     | -                            | UTG62411SN    | UTG02411P                 | -             |

\*Contacts supply separately

For IP65 waterprotected version (for only receptacle) add «H» behind N or S. Ex. UTG0103PH

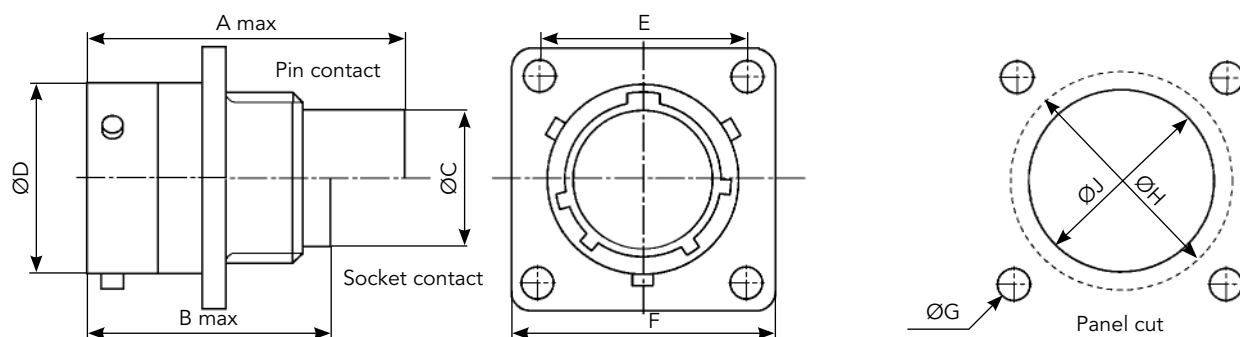
## Dimensions

### Cable Plug - UTG6



| Shell size | ØA±0.2 | B max       |                | ØC±0.15 | ØD±0.15 | ØE±0.2 |
|------------|--------|-------------|----------------|---------|---------|--------|
|            |        | Pin contact | Socket contact |         |         |        |
| 10         | 21.6   | 31.8        | 23.9 / 26.75   | 10.9    | 12.2    | 19.1   |
| 12         | 24.8   |             | 23.9           | 13.8    | 15.1    |        |
| 14         | 28.0   |             |                | 17.0    | 18.3    |        |
| 16         | 31.2   |             |                | 19.9    | 21.5    |        |
| 18         | 34.3   | 31.8 / 33.0 | 23.9 / 29.0    | 22.4    | 24.0    |        |
| 20         | 37.5   | 31.8 / 35.3 | 24.9           | 25.6    | 27.2    |        |
| 22         | 47.0   | 31.8        |                | 28.5    | 30.4    |        |
| 24         | 50.1   |             | 26.2           | 31.7    | 33.5    |        |

### Wall Mounting - UTG0



| Shell size | A max       |                | B $\pm 0.15$ | C $\pm 0.2$ | ØD $\pm 0.15$ | ØE $\pm 0.2$ | F $\pm 0.25$ | ØG $\pm 0.1$ | ØH $\pm 0.1$ | ØJ $\pm 0.1$ |
|------------|-------------|----------------|--------------|-------------|---------------|--------------|--------------|--------------|--------------|--------------|
|            | Pin contact | Socket contact |              |             |               |              |              |              |              |              |
| 10         | 31.7        | 24.3 / 27.6    | 2.3          | 11.3        | 15.0          | 18.3         | 23.8         | 3.2          | 17.3         | 15.1         |
| 12         |             | 24.3           |              |             | 19.0          | 20.6         | 26.2         |              | 21.8         | 18.2         |
| 14         |             |                |              |             | 22.2          | 23.0         | 28.6         |              | 25.0         | 21.4         |
| 16         |             |                |              |             | 25.3          | 24.6         | 31.0         |              | 28.1         | 24.6         |
| 18         | 31.7 / 34.0 | 24.3 / 30.4    | 2.5          | 11.3 / 17.9 | 28.5          | 27.0         | 33.3         | 3.9          | 31.3         | 27.7         |
| 20         | 33.3        | 27.0           |              | 14.5        | 31.7          | 29.4         | 36.5         |              | 34.5         | 30.9         |
| 22         |             | 28.0           | 34.9         |             | 31.8          | 39.7         | 37.7         |              | 34.1         |              |
| 24         |             |                | 30.4         | 3.5         | 15.3          | 38.0         | 34.9         | 42.9         |              | 40.9         |

Note: all dimensions are in mm



## Specifications

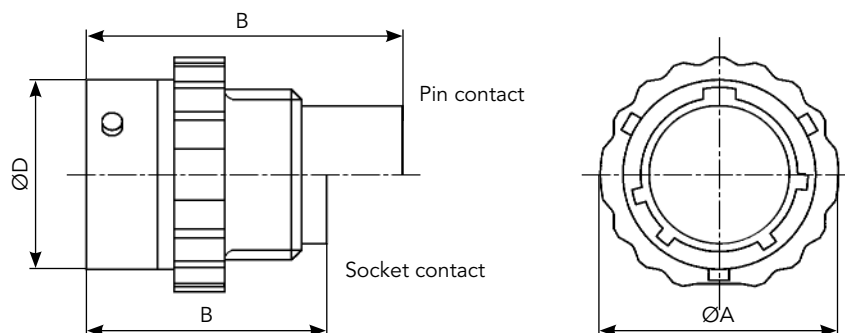
| Shell size | Contacts number* | Connector type / Part number |               |
|------------|------------------|------------------------------|---------------|
|            |                  | Free hanging receptacle      |               |
|            |                  | Male insert                  | Female insert |
| 10         | 4 #16            | UTG1104P                     | UTG1104S      |
|            | 2 + ground #16   | UTG1103P                     | UTG1103S      |
|            | 3 #20 + 3 #16    | -                            | UTG1103W3S    |
| 12         | 8 #16            | UTG1128P                     | UTG1128S      |
| 14         | 12 #16           | UTG11412P                    | UTG11412S     |
| 16         | 19 #16           | UTG11619P                    | UTG11619S     |
| 18         | 23 #16           | UTG11823P                    | UTG11823S     |
| 20         | 28 #16           | UTG12028P                    | UTG12028S     |
| 22         | 35 #16           | UTG12235P                    | UTG12235S     |
| 24         | 48 #16           | UTG12448P                    | UTG12448S     |
|            | 7 #8 + 2 #16     | UTG1247P                     | UTG1247S      |

\*Contacts supply separately

For IP65 waterprotected version (for only receptacle) add «H» behind N or S. Ex. UTG1103PH

## Dimensions

### Free Hanging - UTG1



| Shell size | ØA±0.2 | B max       |                | ØD±0.15 |      |
|------------|--------|-------------|----------------|---------|------|
|            |        | Pin contact | Socket contact |         |      |
| 10         | 19.5   | 31.7        | 24.3 / 27.6    | 15.0    |      |
| 12         | 23.5   |             | 24.3           |         | 19.0 |
| 14         | 27     |             |                |         | 22.2 |
| 16         | 30.0   |             |                |         | 25.3 |
| 18         | 33.3   | 31.7 / 34.0 | 24.3 / 30.4    | 28.5    |      |
| 20         | 36.5   | 33.3 / 34.3 | 25.9           | 31.7    |      |
| 22         | 39.5   |             |                | 34.9    |      |
| 24         | 42.1   |             |                | 38.0    |      |

## Accessories

### Cable Clamp



| Part number | Shell size |
|-------------|------------|
| UTG10AC     | 10         |
| UTG12AC     | 12         |
| UTG14AC     | 14         |
| UTG16AC     | 16         |
| UTG18AC     | 18         |
| UTG20AC     | 20         |
| UTG22AC     | 22         |
| UTG24AC     | 24         |

### Cable Clamp for Waterprotected (IP65) Applications



| Part number | Shell size |
|-------------|------------|
| UTG10PG     | 10         |
| UTG12PG     | 12         |
| UTG14PG     | 14         |
| UTG16PG     | 16         |
| UTG18PG     | 18         |
| UTG20PG     | 20         |
| UTG22PG     | 22         |
| UTG24PG     | 24         |

### Cable Gland for Waterprotected (IP65) Applications



| Part number | Shell size |
|-------------|------------|
| UTG10ST     | 10         |
| UTG12ST     | 12         |
| UTG14ST     | 14         |
| UTG16ST     | 16         |
| UTG18ST     | 18         |
| UTG20ST     | 20         |
| UTG22ST     | 22         |
| UTG24ST     | 24         |

### Metal Shrink Boot



| Part number | Shell size |
|-------------|------------|
| UTG10AD     | 10         |
| UTG12AD     | 12         |
| UTG14AD     | 14         |
| UTG16AD     | 16         |
| UTG18AD     | 18         |
| UTG20AD     | 20         |
| UTG22AD     | 22         |
| UTG24AD     | 24         |

### Dustcap (Receptacle)



| Part number | Shell size |
|-------------|------------|
| UTP10DC     | 10         |
| UTP12DC     | 12         |
| UTP14DC     | 14         |
| UTP16DC     | 16         |
| UTP18DC     | 18         |
| UTP20DC     | 20         |
| UTP22DC     | 22         |
| UTP24DC     | 24         |

### Dustcap with Chain (Receptacle)



| Part number | Shell size |
|-------------|------------|
| UTP10DCG    | 10         |
| UTP12DCG    | 12         |
| UTP14DCG    | 14         |
| UTP16DCG    | 16         |
| UTP18DCG    | 18         |
| UTP20DCG    | 20         |
| UTP22DCG    | 22         |
| UTP24DCG    | 24         |

## Plastic Protective Cap for Receptacle



| Part number | Shell size |
|-------------|------------|
| 8500-5586A  | 10         |
| 8500-5587A  | 12         |
| 8500-5588A  | 14         |
| 8500-5589A  | 16         |
| 8500-5590A  | 18         |
| 8500-5591A  | 20         |
| 8500-5592A  | 22         |
| 8500-5593A  | 24         |

## Gasket



| Part number | Shell size |
|-------------|------------|
| UTFD12B     | 10         |
| UTFD13B     | 12         |
| UTFD14B     | 14         |
| UTFD15B     | 16         |
| UTFD16B     | 18         |
| UTFD17B     | 20         |
| UTFD18B     | 22         |
| UTFD19B     | 24         |

## Contact Selector Guide

### Contact supplied separately

| Electrical characteristics: contact resistance |                  |       |
|------------------------------------------------|------------------|-------|
| #20<br>Ø1mm                                    | Machined         | < 6mΩ |
|                                                | Stamped & Formed | < 6mΩ |
| #16<br>Ø1.6mm                                  | Machined         | < 3mΩ |
|                                                | Stamped & Formed | < 6mΩ |
| #12<br>Ø2.4mm                                  | Machined         | < 5mΩ |
| #8<br>Ø3.6mm                                   | Machined         | < 5mΩ |

| Available platings (contact supplied separately)        |                                                                                         |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------|
| A                                                       | 2μ Ni + 2μ Ag                                                                           |
| J                                                       | Gold flash over 2μ Ni                                                                   |
| K                                                       | Min 0.4μ gold over 2μ Ni                                                                |
| S31                                                     | Active part: Gold flash over Ni<br>Crimp area: Nickel                                   |
| S18                                                     | Active part: 0.75μ gold min over 2μ Ni<br>Crimp area: 1.3μ tin over Ni<br>Other: Nickel |
| S25<br>S26                                              | Active part: 0.75μ Au over Ni<br>Crimp area: flash Au over Ni                           |
| TK6                                                     | 2-5μ Sn pre-plated                                                                      |
| D70                                                     | Superseded by S31                                                                       |
| S6                                                      | Superseded by S18                                                                       |
| Other platings on request (contact supplied separately) |                                                                                         |
| T                                                       | T: 2μ Ni mini all over +<br>3 to 5 μm Sn all over                                       |
| D28                                                     | 0.75μ gold over Ni                                                                      |

## Packaging

Due to the wide variety of applications, contact packaging is offered for small series (bulk package) and high volume production (reeled contacts):

### Size contacts #20 (Ø1mm) & #16 (Ø1.6mm)



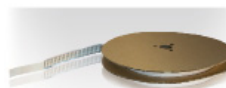
- 25 pieces loose package (Stamped & Formed contacts)



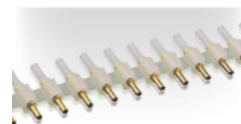
- 50 pieces bulk package (Machined contacts)



- 1,000 pieces bulk package (Machined contacts)



- 3,000 pieces reeled (Stamped & Formed contacts)



- 2,000 pieces reeled (Machined contacts)

### Size contacts #12 (Ø2.4mm) & #8 (Ø3.6mm)



- 100 pieces bulk package (Machined contacts)

Note: 1,000 pieces bulk package available by adding 1000 at the end of the part number: e.g. RC16M23K1000  
2,000 pieces reeled package available by adding K at the beginning of the part number: e.g. KRC16M23K

## Crimp Contacts

### Standard Version



| Contact size   | Type             | Wire size |           | Part number   |               | Max wire Ø | Max insulator Ø    | Available plating                 |
|----------------|------------------|-----------|-----------|---------------|---------------|------------|--------------------|-----------------------------------|
|                |                  | AWG       | mm²       | Male          | Female        |            |                    |                                   |
| #20<br>Ø1 mm   | Machined         | 26-24     | 0.13-0.20 | RM24W3K       | RC24W3K       | -          | 1.58 max           | K                                 |
|                | Stamped & Formed | 26-24     | 0.13-0.25 | SM24W3 - (1)  | SC24W3 - (1)  | -          | 0.89-1.58          | TK6<br>S25 (female)<br>S26 (male) |
|                |                  |           |           | SM24WL3 - (2) | SC24WL3 - (2) | -          |                    |                                   |
|                | Machined         | 22-20     | 0.32-0.52 | RM20W3K       | RC20W3K       | -          | 1.58 max           | K                                 |
|                | Stamped & Formed | 22-20     | 0.35-0.5  | SM20W3 - (1)  | SC20W3 - (1)  | -          | 1.17-2.08          | TK6<br>S25 (female)<br>S26 (male) |
|                |                  |           |           | SM20WL3 - (2) | SC20WL3 - (2) | -          |                    |                                   |
| #16<br>Ø1.6 mm | Machined         | 20-18     | 0.50-0.93 | RM18W3K       | RC18W3K       | -          | 2.10 max           | K                                 |
|                | Machined         | 30-28     | 0.05-0.08 | RM28M1 -      | RC28M1 -      | 0.55       | 1.1                | K, J                              |
|                | Machined         | 26-24     | 0.13-0.2  | RM24M9 -      | RC24M9 -      | 0.8        | 1.6                | K, J                              |
|                | Stamped & Formed | 26-24     | 0.13-0.25 | SM24M1 - (1)  | SC24M1 - (1)  | 0.89-1.28  | Insulation grip    | S31, S18, TK6                     |
|                |                  |           |           | SM24ML1 - (2) | SC24ML1 - (2) |            |                    |                                   |
|                | Machined         | 22-20     | 0.32-0.52 | RM20M13 -     | RC20M13 -     | 1.18       | 1.8                | K, J                              |
|                |                  |           |           | RM20M12 -     | RC20M12 -     |            | 2.2                |                                   |
|                | Stamped & Formed | 22-20     | 0.35-0.5  | SM20M1 - (1)  | SC20M1 - (1)  | 1.17-2.08  | Insulation grip    | S31, S18, TK6                     |
|                |                  |           |           | SM20ML1 - (2) | SC20ML1 - (2) |            |                    |                                   |
|                | Machined         | 20-16     | 0.52-1.5  | RM16M23 -     | RC16M23 -     | 1.8        | 3.2                | K, J                              |
|                | Stamped & Formed | 18-16     | 0.8-1.5   | SM16M1 - (1)  | SC16M1 - (1)  | 3.0        | No insulation grip | S31, S18, TK6                     |
|                |                  |           |           | SM16ML1 - (2) | SC16ML1 - (2) |            |                    |                                   |
| #12<br>Ø2.4 mm | Machined         | 22        | 0.13-0.4  | 82911457N -   | 82911456 -    | -          | 4.9                | A, K                              |
|                |                  | 20        | 0.5       | 82911459N -   | 82911458 -    |            |                    |                                   |
|                |                  | 18        | 0.75-1.0  | 82911461N -   | 82911460 -    |            |                    |                                   |
|                |                  | 16        | 1.5       | 82911463N -   | 82911462 -    |            |                    |                                   |
|                |                  | 14        | 2.5       | 82911465N -   | 82911464 -    |            |                    |                                   |
|                |                  | 12        | 4         | 82911467N -   | 82911466 -    |            |                    |                                   |
| #8<br>Ø3.6 mm  | Machined         | 16        | 1.5       | 82913601A     | 82913600A     | -          | 6.5                | A                                 |
|                |                  | 14        | 2.5       | 82913603A     | 82913602A     |            |                    |                                   |
|                |                  | 12        | 4         | 82913605A     | 82913604A     |            |                    |                                   |
|                |                  | 10        | 6.0       | 82913607A     | 82913606A     |            |                    |                                   |
|                |                  | 8         | 10.0      | 82913609A     | 82913608A     |            |                    |                                   |

(1) contact reeled (2) loose contact  
Example: RM24W3K - Size #20, Machined, AWG24 wire.

Note: all dimensions are in mm

## Crimp Contacts (Continued)

### First Mate Last Break Contacts

| Contact size                                      | Type     | Wire size |           | Part number |             | Max wire Ø (mm) | Max insulator Ø (mm) |  |      | Available plating |
|---------------------------------------------------|----------|-----------|-----------|-------------|-------------|-----------------|----------------------|-------------------------------------------------------------------------------------|------|-------------------|
|                                                   |          | AWG       | mm²       | Male        | Female      |                 |                      | Front                                                                               | Rear |                   |
| #16<br>Ø1.6 mm<br>Longer male contact (+1mm)      | Machined | 30-28     | 0.05-0.08 | RM28M1GE1-  | -           | 0.55            | 1.1                  | -                                                                                   | Red  | K, J              |
|                                                   |          | 26-24     | 0.13-0.2  | RM24M9GE1-  |             | 0.8             | 1.6                  | Red                                                                                 | Red  |                   |
|                                                   |          | 22-20     | 0.32-0.52 | RM20M13GE1- |             | 1.18            | 1.8                  | Black                                                                               | Red  |                   |
|                                                   |          |           |           | RM20M12GE1- |             |                 | 2.2                  | Blue                                                                                | Red  |                   |
|                                                   |          | 20-16     | 0.52-1.5  | RM16M23GE1- |             | 1.8             | 3.2                  | -                                                                                   | Red  |                   |
|                                                   |          | 16-14     | 1.5-2.5   | RM14M30GE1- |             | 2.28            | -                    | -                                                                                   | Red  |                   |
| #16<br>Ø1.6 mm<br>Shorter female contact (-0.7mm) | Machined | 30-28     | 0.05-0.08 | -           | RC28M1GE7-  | 0.55            | 1.1                  | -                                                                                   | Blue | K, J              |
|                                                   |          | 26-24     | 0.13-0.2  |             | RC24M9GE7-  | 0.8             | 1.6                  | Red                                                                                 | Blue |                   |
|                                                   |          | 22-20     | 0.32-0.52 |             | RC20M13GE7- | 1.18            | 1.8                  | Black                                                                               | Blue |                   |
|                                                   |          |           |           |             | RC20M12GE7- |                 | 2.2                  | Blue                                                                                | Blue |                   |
|                                                   |          | 20-16     | 0.52-1.5  |             | RC16M23GE7- | 1.8             | 3.2                  | -                                                                                   | Blue |                   |
|                                                   |          | 16-14     | 1.5-2.5   |             | RC14M30GE7- | 2.28            | -                    | -                                                                                   | Blue |                   |

### How to make FMLB / LMFB connection

| Contact 1 \ Contact 2   | Standard male contact | Standard female contact | Longer male contact |
|-------------------------|-----------------------|-------------------------|---------------------|
| Standard male contact   |                       | ✓                       |                     |
| Standard female contact | ✓                     |                         | ✓<br>FMLB           |
| Shorter female contact  | ✓<br>LMFB             |                         |                     |

First Mate Last Break contacts should be chosen only if the cavity is not marked with the ground symbol. For cavities marked with the ground symbol, standard contacts will fulfill the same role as a first mate, last break contact used in a standard cavity.



Ground symbol

## Tooling

### Crimp Tool Table

#### Standard contacts

| Contact size                 | Part number                  | Head*     | Handles* | Extraction tools |
|------------------------------|------------------------------|-----------|----------|------------------|
| #20<br>Ø1 mm                 | RM/RC 24W3K                  | S20RCM    | SHANGLES | RX20D44          |
|                              | RM/RC 20W3K                  |           |          |                  |
|                              | RM/RC 18W3K                  |           |          |                  |
|                              | SM 24WL3S* <sup>(1)</sup>    | S20SCM20  |          |                  |
|                              | SC 24WL3S* <sup>(1)</sup>    |           |          |                  |
| SM/SC 20WL3S* <sup>(1)</sup> |                              |           |          |                  |
| #16<br>Ø1.6 mm               | RM/RC 28M1*                  | S16RCM20  |          |                  |
|                              | RM/RC 24M9*                  |           |          |                  |
|                              | RM/RC 20M13*                 |           |          |                  |
|                              | RM/RC 20M12*                 |           |          |                  |
|                              | RM/RC 16M23*                 | S16RCM16  |          |                  |
|                              | RM/RC 14M30*                 | S16RCM14  |          |                  |
|                              | SM/SC 24ML1* <sup>(1)</sup>  | S16SCM20  |          |                  |
|                              | SM/SC 20ML1* <sup>(1)</sup>  |           |          |                  |
|                              | SM/SC 16ML1* <sup>(1)</sup>  | S16SCML1  |          |                  |
|                              | SM/SC 14ML1* <sup>(1)</sup>  |           |          |                  |
|                              | SM/SC 16ML11* <sup>(1)</sup> | S16SCML11 |          |                  |

(1) loose contact

\* endurance of SHANGLES & Head tools = 50,000 cycles

| Contact size   | Part number            | Tool with separate locator |                              |     | Extraction tools |
|----------------|------------------------|----------------------------|------------------------------|-----|------------------|
|                |                        | Hand tool                  | Positioner + locator setting |     |                  |
| #12<br>Ø2.4 mm | 82911457N* / 82911456* | M317                       | VGE10077A                    | 1-2 | 51060210924      |
|                | 82911459N* / 82911458* |                            |                              | 2   |                  |
|                | 82911461N* / 82911460* |                            |                              | 2   |                  |
|                | 82911463N* / 82911462* |                            |                              | 3   |                  |
|                | 82911465N* / 82911464* |                            |                              | 3   |                  |
|                | 82911467N* / 82911466* |                            |                              | 4   |                  |
| #8<br>Ø3.6 mm  | 82913601A / 82913600A  | M317                       | VGE10078A                    | 3   | 51060210936      |
|                | 82913603A / 82913602A  |                            |                              | 3   |                  |
|                | 82913605A / 82913604A  |                            |                              | 4   |                  |
|                | 82913607A / 82913606A  |                            |                              | 5   |                  |
|                | 82913609A / 82913608A  |                            |                              | 6/7 |                  |

\* see page 169 for plating options and other contact details

#### Specific contacts (First mate Last break contacts)

| Contact size                          | Part number*               | Hand tools<br>(SHANDLES) head | Tool with separate locator |                              |     | Extraction tools |
|---------------------------------------|----------------------------|-------------------------------|----------------------------|------------------------------|-----|------------------|
|                                       |                            |                               | Hand tool                  | Positioner + locator setting |     |                  |
| #16<br>Ø1 mm<br>Longer RM<br>contact  | RM28M1GE1K                 | S16RCM20                      | -                          | -                            | -   | RX2025GE1        |
|                                       | RM24M9GE1K                 |                               |                            |                              |     |                  |
|                                       | RM20M13GE1K                |                               |                            |                              |     |                  |
|                                       | RM16M23GE1K<br>RM20M12GE1K | S16RCM16                      | MH860                      | MH86186                      | 6/8 |                  |
|                                       | RM14M30GE1K                | S16RCM14                      | -                          | -                            | -   |                  |
| #16<br>Ø1 mm<br>Shorter RC<br>contact | RC28M1GE7K                 | S16RCM20                      | MH860                      | MH86164G                     | 4/6 |                  |
|                                       | RC24M9GE7K                 |                               |                            |                              | 5/6 |                  |
|                                       | RC20M13GE7K<br>RC20M12GE7K |                               |                            |                              | 5/7 |                  |
|                                       | RC16M23GE7K                | S16RCM16                      |                            | 6/8                          |     |                  |
|                                       | RC14M30GE7K                | S16RCM14                      | M317                       | UH25                         | 3   |                  |

\* example of plating, for other plating consult us.

#### Coaxial contacts

Consult us

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