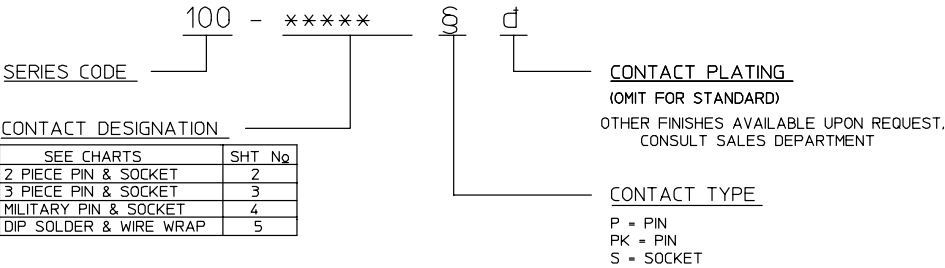


NOTES:

- 1. REF - WIRE STRIP LENGTH TO BE .187/4.75.
- 2. CRIMP CONTACTS AVAILABLE ON REELS (2000/REEL). SEE CHART FOR REEL PART No
- 3. CATALOG NUMBER CODE:

100 SERIES CODE ORDER CHART



SPECIFICATIONS

MATERIALS & FINISHES

- 1. Socket Contact ————— Material: Copper Alloy  
Finish: Standard= 80"/0.2m Min Gold Over Nickel  
Military= 50"/1.25m Min Gold Over Nickel
- 2. Pin Contact ————— Material: Copper Alloy  
Finish: Standard= 80"/0.2m Min Gold Over Nickel  
Military= 50"/1.25m Min Gold Over Nickel
- 3. Retainer Clip ————— Material: Standard= Beryllium Copper Alloy  
Finish: Gold Plated
- 4. Contact Spring ————— Material: Beryllium Copper Alloy  
Finish: Standard= Nickel Plated  
Military= Gold Plated
- 5. Contact Spring ————— Material: Beryllium Copper Alloy  
Finish: Gold Plated

PERFORMANCE CHARACTERISTICS

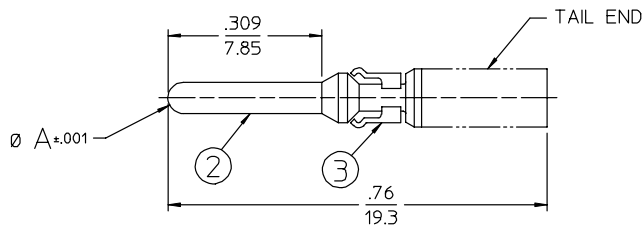
- Conforms to ————— MIL-C-39029
- Current rating ————— 7.5 amps. max. for 0.040/102 per individual contact  
13 amps max for 0.0625/1587 per individual contact

ACCESSORY TOOLS

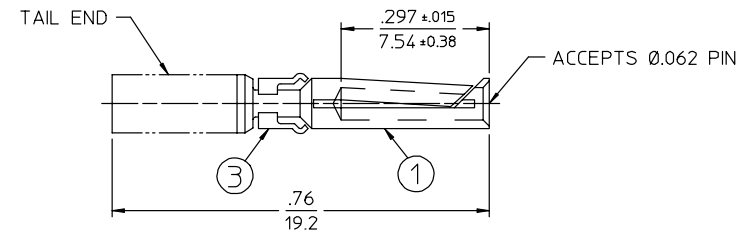
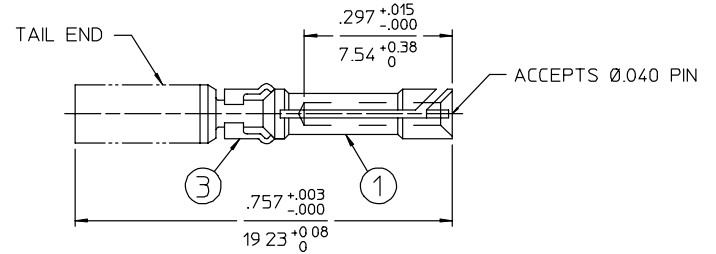
| ACCESSORY TOOLS                     |             |                                                                    |                              |                |
|-------------------------------------|-------------|--------------------------------------------------------------------|------------------------------|----------------|
| DESCRIPTION                         | CATALOG No  | LOCATORS/POSITIONERS                                               | CRIMP DEPTH BLOCK            | SPANNER WRENCH |
| INSERTION TOOL                      | 107-1015    | —————                                                              | —————                        | —————          |
| REMOVAL TOOL                        | 107R-1001   |                                                                    |                              |                |
| REMOVAL TOOL                        | 107-1005    |                                                                    |                              |                |
| NON-ADJUSTABLE HAND CRIMP MS-3191-2 | 107-0970    | 107-0981 (#14)<br>107-0977 (#16,#18)<br>107-0976 (#20,#22,#24,#26) |                              |                |
| HAND CRIMP                          | 107-0903-2A | 107-0945                                                           |                              |                |
| PNEUMATIC AUTOMATIC CRIMP           | 107-0961    |                                                                    | 107-0965-#20<br>107-0966-#16 | —————          |
| NON-ADJUSTABLE MINIATURE HAND CRIMP | 107-43300   | 107-43304<br>107-0993 (#20,#22,#24,#26)                            |                              |                |
| ADJUSTABLE MINIATURE HAND CRIMP     | 107-0625    | 107-0628                                                           |                              |                |
| CONTACT PIN STRAIGHTENER            | 107-1024    | —————                                                              |                              |                |
| GAGE PLUG                           | 5431        |                                                                    |                              |                |

|                                                                                                  |                  |                                                                                             |                  |
|--------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------|------------------|
| PER ANSI Y14.5M-1982<br>UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES — OR INCHES / MM |                  | <b>Litton</b><br>Winchester Electronics<br>400 PARK ROAD<br>WATERTOWN, CONNECTICUT<br>06795 |                  |
| TOLERANCES<br>DECIMALS    xx ± .02<br>xxx ± .010<br>ANGLES    °                    SCALE: 5:1    |                  | TITLE<br>MRAC REMOVABLE<br>PIN & SOCKET CONTACTS                                            |                  |
| <b>CUSTOMER DRAWING</b>                                                                          |                  |                                                                                             |                  |
| DRAWN<br>K.D.B.                                                                                  | DATE<br>03/28/96 | CHECKED<br>W.P.M.                                                                           | DATE<br>03/29/96 |
| APPROVED<br>V.B.H                                                                                | DATE<br>03/28/96 | DATE<br>03/29/96                                                                            | DATE<br>03/29/96 |
| C                                                                                                |                  | 22891                                                                                       |                  |
| SHT. 1 OF 5                                                                                      |                  | REV. H                                                                                      |                  |

| REV | DESCRIPTION           | BY              | APPD |
|-----|-----------------------|-----------------|------|
| H   | REVISED PER ECR# 6003 | CMB<br>09/16/99 | WPM  |

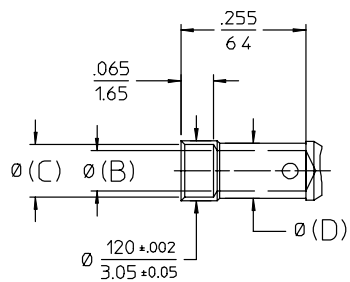


PIN

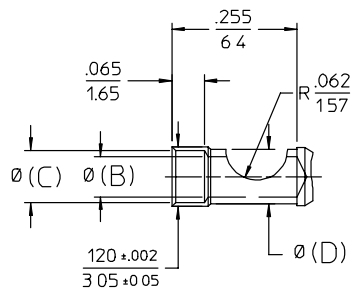


2 PIECE SOCKETS

### TAIL OPTIONS



CRIMP



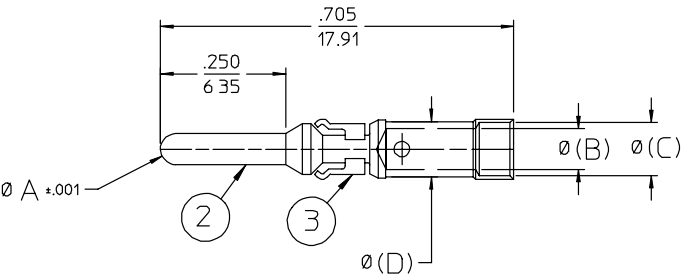
SOLDER

| PIN Ø A = .0625/1.587     |                                                                                        |                            |             | PIN Ø A = .040/1.02       |                                                                                          |                            |           | WIRE SIZE | B         | C         | D         |
|---------------------------|----------------------------------------------------------------------------------------|----------------------------|-------------|---------------------------|------------------------------------------------------------------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|
| CRIMP CAT. N <sub>Q</sub> |                                                                                        | SOLDER CAT. N <sub>Q</sub> |             | CRIMP CAT. N <sub>Q</sub> |                                                                                          | SOLDER CAT. N <sub>Q</sub> |           |           |           |           |           |
| CONTACT                   | REEL  | CONTACT                    | REEL        | CONTACT                   | REEL  | CONTACT                    | REEL      |           |           |           |           |
| 100-1026P-d               | 100-0963P-d                                                                            | —                          | —           | —                         | —                                                                                        | —                          | —         | 26-28-30  | .024/0.61 | .050/1.27 | .077/1.95 |
| 100-1024P-d               | 100-0917P-d                                                                            | 100-2524P-d                |             | 100-2024P-d               | 100-0951P-d                                                                              | 100-2624P-d                |           | 24-26-28  | .027/0.68 | .055/1.40 | .077/1.95 |
| 100-1022P-d               | 100-0907P-d                                                                            | 100-2522P-d                |             | 100-2022P-d               | 100-0947P-d                                                                              | 100-2622P-d                |           | 22-24-26  | .033/0.84 | .055/1.40 | .077/1.95 |
| 100-1020P-d               | 100-0915P-d                                                                            | 100-2520P-d                |             | 100-2020P-d               | 100-0945P-d                                                                              | 100-2620P-d                |           | 20-22-24  | .046/1.17 | .069/1.75 | .077/1.95 |
| 100-1018P-d               | 100-0913P-d                                                                            | 100-2518P-d                |             | 100-2018P-d               | 100-0943P-d                                                                              | 100-2618P-d                |           | 18-20-22  | .052/1.32 | .078/1.98 | .096/2.44 |
| 100-1016P-d               | 100-0911P-d                                                                            | 100-2516P-d                |             | 100-2016P-d               | 100-0949P-d                                                                              | 100-2616P-d                |           | 16-18-20  | .068/1.73 | .094/2.39 | .110/2.79 |
| 100-1014P-d               | 100-0909P-d                                                                            | 100-2514P-d                |             | —                         | —                                                                                        | —                          |           | 14-16-18  | .081/2.06 | .101/2.67 | .110/2.79 |
| 100-1012P-d               | 100-0903P-d                                                                            | —                          |             | —                         | —                                                                                        | —                          |           | 12-14     | .098/2.49 | —         | .120/3.05 |
| 100-1026S-d               | 100-0965S-d                                                                            | —                          |             | —                         | —                                                                                        | —                          |           | 26-28-30  | .024/0.61 | .050/1.27 | .077/1.95 |
| 100-1024S-d               | 100-0927S-d                                                                            | 100-2524S-d                |             | 100-2024S-d               | 100-0941S-d                                                                              | 100-2624S-d                |           | 24-26-28  | .027/0.68 | .055/1.40 | .077/1.95 |
| 100-1022S-d               | 100-0908S-d                                                                            | 100-2522S-d                |             | 100-2022S-d               | 100-0937S-d                                                                              | 100-2622S-d                |           | 22-24-26  | .033/0.84 | .055/1.40 | .077/1.95 |
| 100-1020S-d               | 100-0925S-d                                                                            | 100-2520S-d                |             | 100-2020S-d               | 100-0935S-d                                                                              | 100-2620S-d                |           | 20-22-24  | .046/1.17 | .069/1.75 | .077/1.95 |
| 100-1018S-d               | 100-0923S-d                                                                            | 100-2518S-d                | 100-2018S-d | 100-0933S-d               | 100-2618S-d                                                                              | 18-20-22                   | .052/1.32 | .078/1.98 | .096/2.44 |           |           |
| 100-1016S-d               | 100-0921S-d                                                                            | 100-2516S-d                | 100-2016S-d | 100-0939S-d               | 100-2616S-d                                                                              | 16-18-20                   | .068/1.73 | .094/2.39 | .110/2.79 |           |           |
| 100-1014S-d               | 100-0919S-d                                                                            | 100-2514S-d                | —           | —                         | —                                                                                        | 14-16-18                   | .081/2.06 | .101/2.67 | .110/2.79 |           |           |

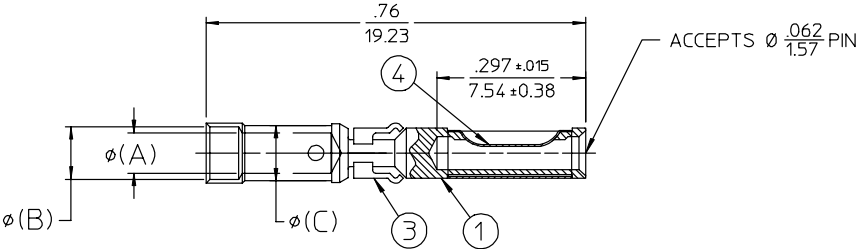
|                                                                                                 |  |                                                                            |  |
|-------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|
| PER ANSI Y14.5M-1982<br>UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES. OR INCHES / MM |  | <b>Litton</b>                                                              |  |
| TOLERANCES<br>DECIMALS .XX ± .02<br>XXX ± .010                                                  |  | Winchester Electronics<br>400 PARK ROAD<br>WATERTOWN, CONNECTICUT<br>06795 |  |
| ANGLES ±                                                                                        |  | SCALE: 5:1                                                                 |  |
| <b>CUSTOMER DRAWING</b>                                                                         |  | TITLE                                                                      |  |
| DRAWN<br>Donna 05/18/94                                                                         |  | DATE CHECKED<br>JMG 08/18/94                                               |  |
| APPROVED<br>V.B.H. 08/18/94                                                                     |  | DATE APPROVED<br>D.R. 08/19/94                                             |  |
| C                                                                                               |  | 22891                                                                      |  |
| Sht. 2 OF 5                                                                                     |  | REV<br>H                                                                   |  |

| REV | DESCRIPTION           | BY DATE            | APPD   |
|-----|-----------------------|--------------------|--------|
| H   | REVISED PER ECR# 6003 | C.W.B.<br>09/16/99 | W.C.M. |

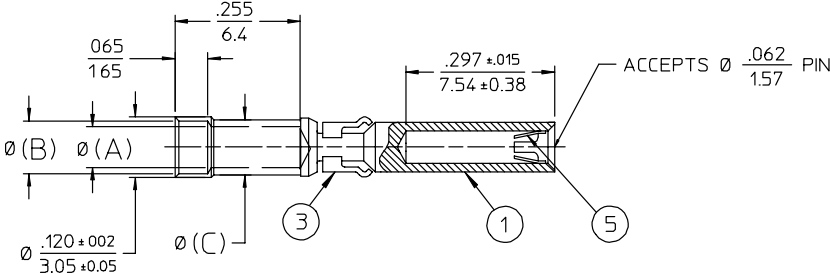
PIN



3 PIECE SOCKET



TYPE A



TYPE B

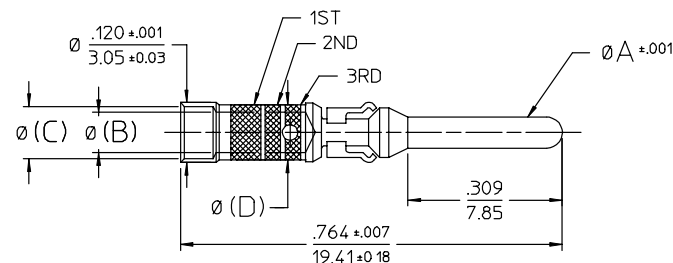
| PIN Ø A =.0625/1.587 |              | PIN Ø A =.040/1.02 |              | WIRE SIZE | B         | C         | D         |
|----------------------|--------------|--------------------|--------------|-----------|-----------|-----------|-----------|
| CONTACT              | REEL         | CONTACT            | REEL         |           |           |           |           |
| 100-1024PK-d         | 100-0976PK-d | 100-2024PK-d       | 100-0990PK-d | 24-26-28  | .027/0.68 | .055/1.40 | .077/1.95 |
| 100-1022PK-d         | 100-0975PK-d | 100-2022PK-d       | 100-0980PK-d | 22-24-26  | .033/0.84 |           |           |
| 100-1020PK-d         | 100-0974PK-d | 100-2020PK-d       | 100-0998PK-d | 20-22-24  | .046/1.17 | .069/1.75 |           |
| 100-1018PK-d         | 100-0973PK-d | 100-2018PK-d       | 100-0989PK-d | 18-20-22  | .052/1.32 | .078/1.98 | .096/2.44 |
| 100-1016PK-d         | 100-0972PK-d | 100-2016PK-d       | 100-0988PK-d | 16-18-20  | .068/1.73 | .094/2.39 | .110/2.79 |
| 100-1014PK-d         | 100-0971PK-d | —                  | —            | 14-16-18  | .081/2.06 | .105/2.67 |           |

| CATALOG No   | REEL CAT. No | WIRE SIZE | A         | B         | C         | TYPE |
|--------------|--------------|-----------|-----------|-----------|-----------|------|
| 100-51014S-d | 100-0981S-d  | 14-16-18  | .081/2.06 | .105/2.67 | .110/2.79 | A    |
| 100-51016S-d | 100-0982S-d  | 16-18-20  | .067/1.70 | .094/2.39 |           |      |
| 100-51018S-d | 100-0983S-d  | 18-20-22  | .052/1.32 | .078/1.98 | .096/2.44 |      |
| 100-51020S-d | 100-0984S-d  | 20-22-24  | .045/1.14 | .067/1.70 |           |      |
| 100-51022S-d | 100-0985S-d  | 22-24-26  | .033/0.84 | .055/1.40 | .077/1.95 |      |
| 100-51024S-d | 100-0986S-d  | 24-26-28  | .027/0.68 |           |           | B    |
| 100-51026S-d | 100-0987S-d  | 26-28-30  | .024/0.61 | .050/1.27 |           |      |
| 100-61014S-d | 100-8024S-d  | 14-16-18  | .081/2.06 | .105/2.67 | .110/2.79 |      |
| 100-61016S-d | 100-8025S-d  | 16-18-20  | .067/1.70 | .094/2.39 |           |      |
| 100-61018S-d | 100-8026S-d  | 18-20-22  | .052/1.32 | .078/1.98 | .096/2.44 |      |
| 100-61020S-d | 100-8027S-d  | 20-22-24  | .045/1.14 | .067/1.70 |           |      |
| 100-61022S-d | 100-8028S-d  | 22-24-26  | .033/0.84 | .055/1.40 | .077/1.95 |      |
| 100-61024S-d | 100-8029S-d  | 24-26-28  | .027/0.68 |           |           |      |
| 100-61026S-d | 100-8030S-d  | 26-28-30  | .024/0.61 | .050/1.27 |           |      |
|              |              |           |           |           |           |      |

|                                                                                                   |                  |                                                                                             |                  |
|---------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------|------------------|
| PER ANSI Y14.5M-1982<br>UNLESS OTHERWISE SPECIFIED.<br>DIMENSIONS ARE IN INCHES. — OR INCHES / MM |                  | <b>Litton</b><br>Winchester Electronics<br>400 PARK ROAD<br>WATERTOWN, CONNECTICUT<br>06795 |                  |
| TOLERANCES<br>DECIMALS .xx ±.02<br>xxx ±.010<br>ANGLES °                                          |                  | SCALE: 5:1                                                                                  |                  |
| <b>CUSTOMER DRAWING</b>                                                                           |                  | TITLE<br>MRAC REMOVABLE<br>PIN & SOCKET CONTACTS                                            |                  |
| DRAWN<br>KDB                                                                                      | DATE<br>03/28/96 | CHECKED<br>W.P.M.                                                                           | DATE<br>03/29/96 |
| APPROVED<br>VBH                                                                                   | DATE<br>03/28/96 | DATE<br>03/29/96                                                                            | DATE<br>03/29/96 |
| C                                                                                                 |                  | 22891                                                                                       |                  |
| 3 OF 5                                                                                            |                  | REV.<br>H                                                                                   |                  |

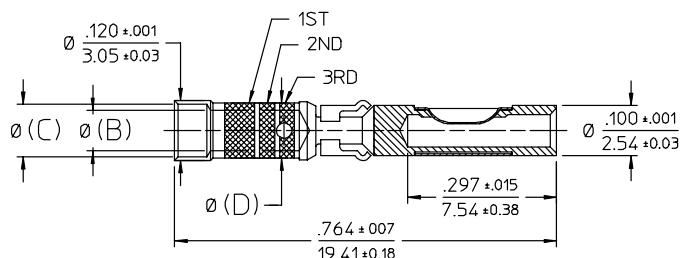
# MILITARY PIN & SOCKET ASSEMBLIES

| REV | DESCRIPTION           | BY DATE            | APPD   |
|-----|-----------------------|--------------------|--------|
| H   | REVISED PER ECR# 6003 | C.W.B.<br>09/16/99 | W.P.M. |

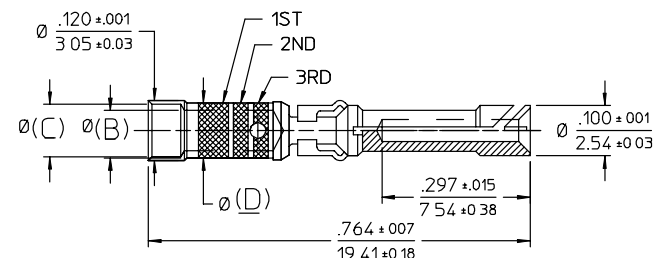


## PIN CONTACTS

| PARTS LIST                           |                                    |                          |             |        |        |           |             |           |           |           |                          |
|--------------------------------------|------------------------------------|--------------------------|-------------|--------|--------|-----------|-------------|-----------|-----------|-----------|--------------------------|
| MILITARY CONTACT CAT. N <sub>Q</sub> | W.E.D. CONTACT CAT. N <sub>Q</sub> | REEL CAT. N <sub>Q</sub> | COLOR BANDS |        |        | WIRE SIZE | PIN Ø<br>A  | B         | C         | D         | USED IN CONNECTOR SERIES |
|                                      |                                    |                          | 1ST         | 2ND    | 3RD    |           |             |           |           |           |                          |
| M39029/34-271                        | 100R-2020P95                       | 100R-0945P95             | RED         | VIOLET | BROWN  | 20-22-24  | .040/1.02   | .046/1.17 | .069/1.75 | .077/1.95 | M28748                   |
| M39029/34-272                        | 100R-1020P95                       | 100R-0915P95             |             |        | RED    | 20-22-24  |             |           |           |           |                          |
| M39029/34-273                        | 100B-1016P95                       | 100B-0911P95             |             |        | ORANGE | 16-18-20  | .0625/1.587 | .068/1.73 | .094/2.39 | .110/2.79 |                          |



CATALOG N<sub>Q</sub>'S M39029/35-275 & -276 SHOWN



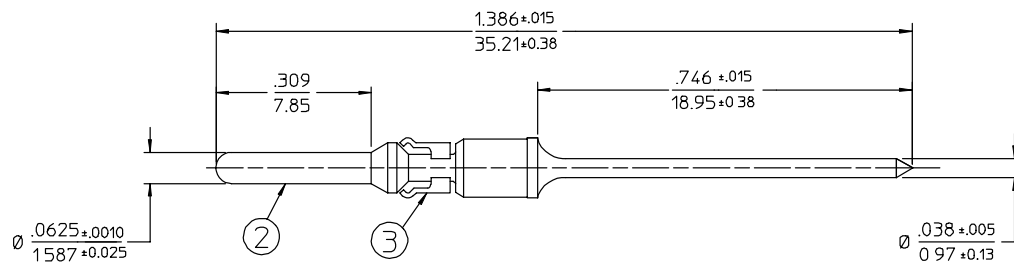
CATALOG N<sub>Q</sub> M39029/35-274 SHOWN

## SOCKET CONTACTS

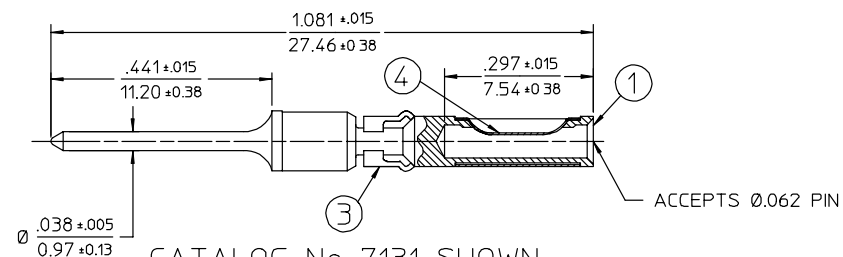
| PARTS LIST                           |                                    |                          |             |        |        |           |              |           |           |           |                          |
|--------------------------------------|------------------------------------|--------------------------|-------------|--------|--------|-----------|--------------|-----------|-----------|-----------|--------------------------|
| MILITARY CONTACT CAT. N <sub>Q</sub> | W.E.D. CONTACT CAT. N <sub>Q</sub> | REEL CAT. N <sub>Q</sub> | COLOR BANDS |        |        | WIRE SIZE | MATING PIN Ø | B         | C         | D         | USED IN CONNECTOR SERIES |
|                                      |                                    |                          | 1ST         | 2ND    | 3RD    |           |              |           |           |           |                          |
| M39029/35-274                        | 100R-2020S95                       | 100R-0979S95             | RED         | VIOLET | YELLOW | 20-22-24  | .040/1.02    | .046/1.17 | .069/1.75 | .077/1.95 | M28748                   |
| M39029/35-275                        | 100R-51020S95                      | 100R-0984S95             |             |        | GREEN  | 20-22-24  |              |           |           |           |                          |
| M39029/35-276                        | 100B-51016S95                      | 100B-0982S95             |             |        | BLUE   | 16-18-20  | .0625/1.587  | .068/1.73 | .094/2.39 | .110/2.79 |                          |

|                                                                                                                                                                   |                  |                                                                                             |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------|------------------|
| PER ANSI Y14.5M-1982<br>UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES<br>DECIMALS    XX ± .02<br>XXX ± .010<br>ANGLES    X°    SCALE: 5:1 |                  | <b>Litton</b><br>Winchester Electronics<br>400 PARK ROAD<br>WATERTOWN, CONNECTICUT<br>06795 |                  |
| <b>CUSTOMER DRAWING</b>                                                                                                                                           |                  | TITLE<br>MRAC REMOVABLE<br>PIN & SOCKET CONTACTS                                            |                  |
| DRAWN<br>K.D.B.                                                                                                                                                   | DATE<br>03/28/96 | CHECKED<br>W.P.M.                                                                           | DATE<br>03/29/96 |
| APPROVED<br>V.B.H.                                                                                                                                                | DATE<br>03/28/96 | APPROVED<br>R.D.R.                                                                          | DATE<br>03/29/96 |
| <b>C</b>                                                                                                                                                          |                  | 22891                                                                                       |                  |
| SHT. 4 OF 5                                                                                                                                                       |                  | REV. H                                                                                      |                  |

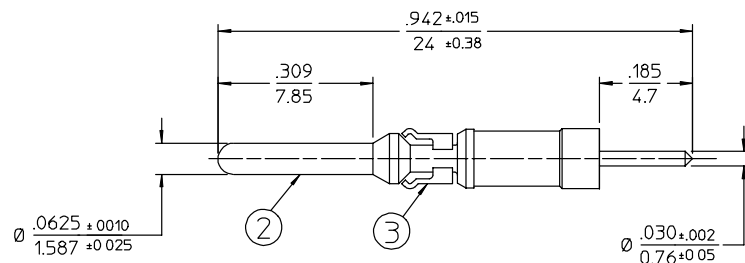
| REV | DESCRIPTION           | BY DATE            | APPD   |
|-----|-----------------------|--------------------|--------|
| H   | REVISED PER ECR# 6003 | C.M.B.<br>09/16/99 | W.P.M. |



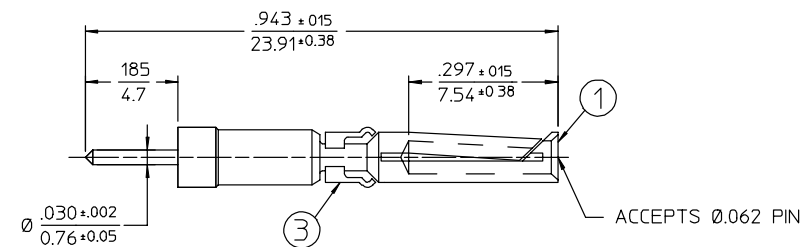
CATALOG No 7130 SHOWN



CATALOG No 7131 SHOWN

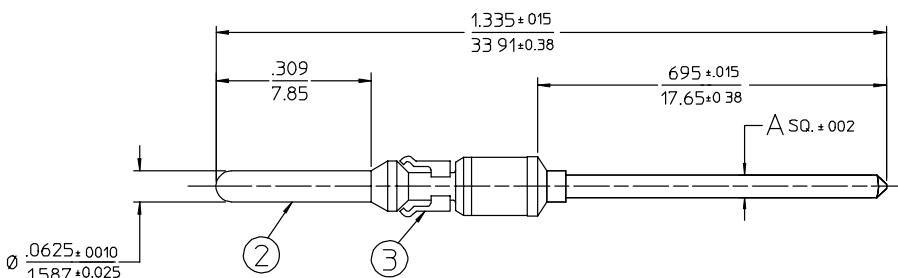


CATALOG No 8124-d SHOWN



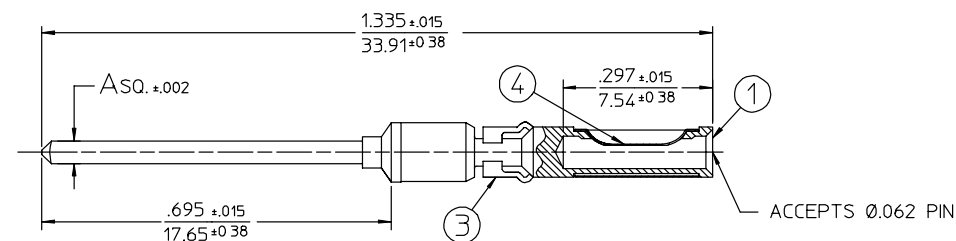
CATALOG No 8125-d SHOWN

DIP SOLDER CONTACTS



CATALOG No'S 8106-d AND 8114-d SHOWN

| CAT. No | A             |
|---------|---------------|
| 8106-d  | .045/1.43 SQ. |
| 8114-d  | .025/0.64 SQ. |



CATALOG No'S 8105-d AND 8113-d SHOWN

| CAT. No | A             |
|---------|---------------|
| 8105-d  | .045/1.43 SQ. |
| 8113-d  | .025/0.64 SQ. |

WIRE WRAP CONTACTS

|                                                                                                 |                  |                                                                                             |                  |
|-------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------|------------------|
| PER ANSI Y14.5M-1982<br>UNLESS OTHERWISE SPECIFIED:<br>DIMENSIONS ARE IN INCHES. OR INCHES / MM |                  | <b>Litton</b><br>Winchester Electronics<br>400 PARK ROAD<br>WATERTOWN, CONNECTICUT<br>06795 |                  |
| TOLERANCES<br>DECIMALS .XX ± .02<br>.XXX ± .010<br>ANGLES °                                     |                  | SCALE 5:1<br>TITLE<br>MRAC REMOVABLE<br>PIN & SOCKET CONTACTS                               |                  |
| <b>CUSTOMER DRAWING</b>                                                                         |                  | 22891                                                                                       |                  |
| DRAWN<br>K.D.B.                                                                                 | DATE<br>03/28/96 | CHECKED<br>W.P.M.                                                                           | DATE<br>03/29/96 |
| APPROVED<br>V.B.H.                                                                              | DATE<br>03/28/96 | APPROVED<br>R.D.R.                                                                          | DATE<br>03/29/96 |
| C                                                                                               |                  | H                                                                                           |                  |