

| REVISONS | | DATE | BY | APPV |
|----------|-----------------------|--------|----|------|
| P | LTR | | | |
| G | REV PER ECO 13-018917 | 2-3-14 | CT | KH |

SQUARE FLANGE MOUNT RECEPTACLES:

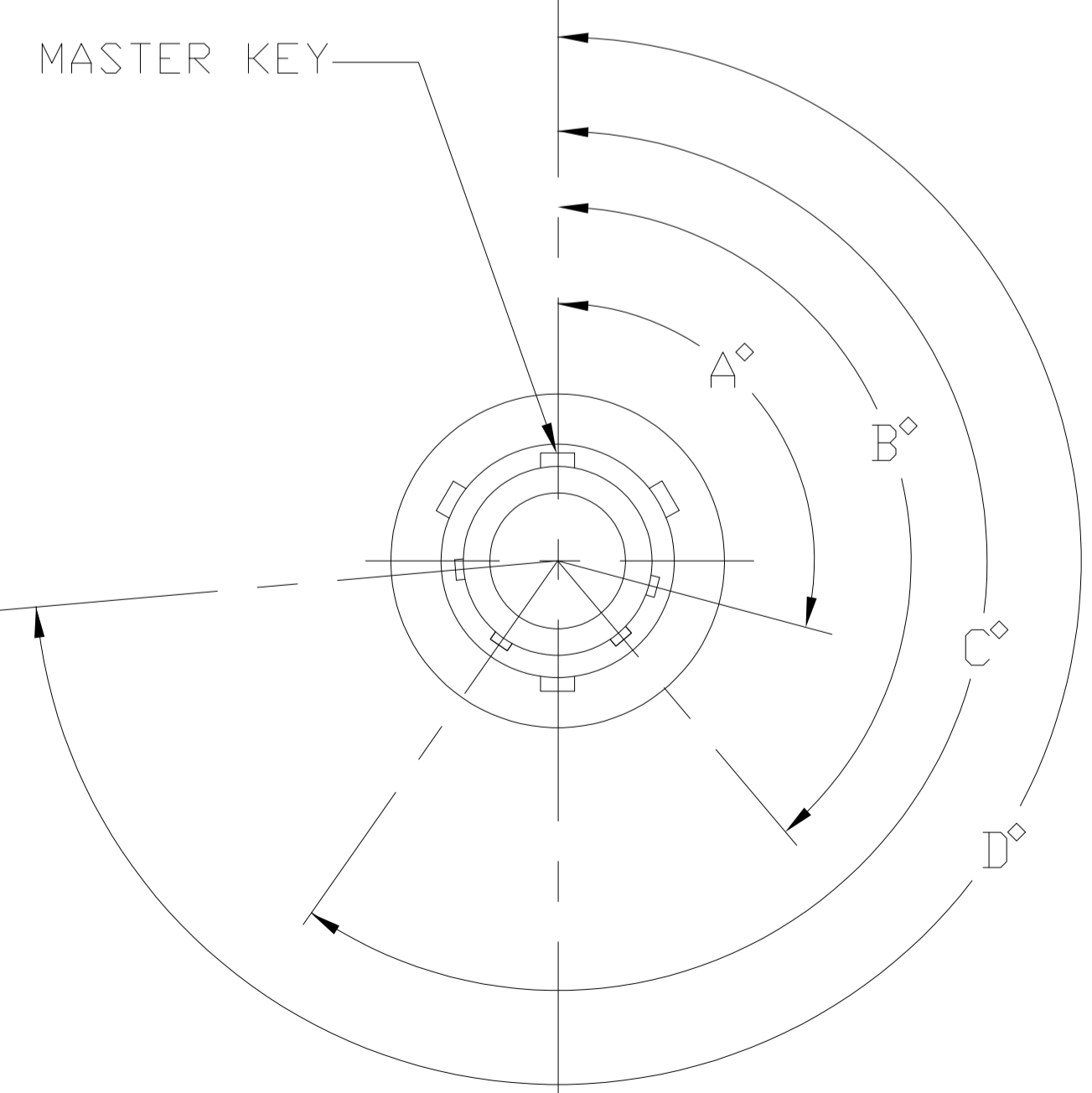


SHELL ALTERNATE KEYING POSITIONS:

IN THE "ALTERNATE KEYING POSITION" (POSITION 6,7,8,9, AND 10), THE KEYS ARE POSITIONED AS INDICATED IN THE CHART BELOW WITH REFERENCE TO MASTER KEY. WHEN THE ALTERNATE SHELL KEYING POSITIONS ARE USED, THE APPLICABLE INSERT IS ALWAYS IN THE NORMAL POSITION.

KEY / KEYWAY LOCATIONS

| KEYING POSITION | SIZE 12 THRU 24 | | | |
|-----------------|-----------------|-----|-----|-----|
| | A° | B° | C° | D° |
| NORMAL | 105 | 140 | 215 | 265 |
| 6 | 18 | 149 | 192 | 259 |
| 7 | 92 | 152 | 222 | 342 |
| 8 | 84 | 152 | 204 | 334 |
| 9 | 24 | 135 | 199 | 240 |
| 10 | 98 | 152 | 268 | 338 |



THE FACE OF KEYWAYS FOR PLUG SHELL
KEYWAYS IN RECEPTACLE SHELLS ARE OPPOSITE

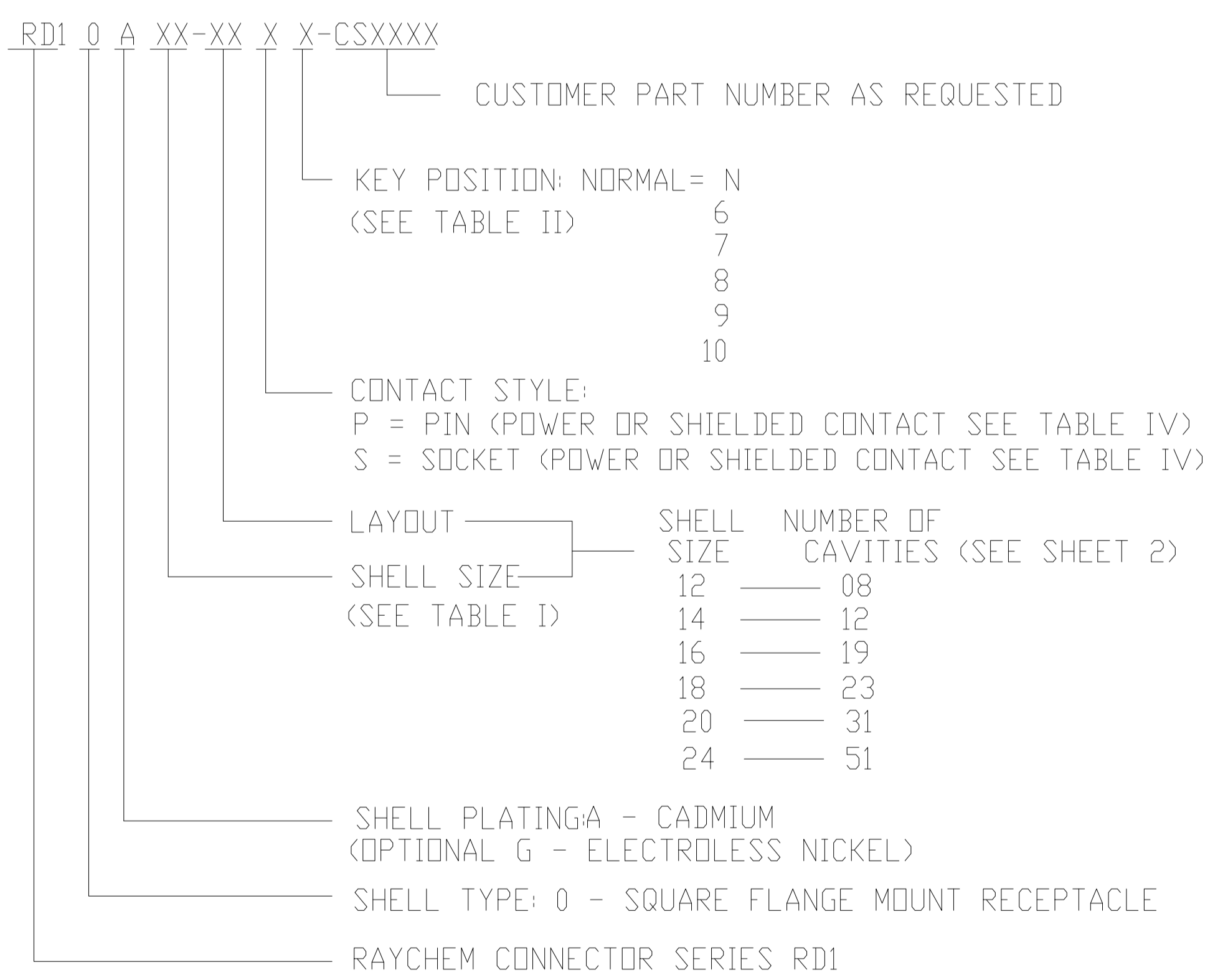
| SHELL SIZE | A | B | C | D | E | F | G | H | J | K | L | N | E° | F° | G° |
|------------|-------|----------------|----------------|-------|-------|-------|-------|-------|-------|-------|------|-------------------|----|-----|-----|
| 12 | .558 | .705 .700 | .829 .824 | .875 | .613 | .687 | .750 | .812 | 1.031 | .913 | .120 | 3/4-20 UNEF-2A | 50 | 170 | 290 |
| 14 | .627 | .774 .769 | .898 .893 | .935 | .738 | .812 | .875 | .906 | 1.125 | .980 | ↑ | 7/8-20 UNEF-2A | ↑ | ↑ | ↑ |
| 16 | .772 | .901 .896 | 1.025 1.020 | 1.062 | .863 | .937 | 1.000 | .969 | 1.250 | 1.107 | ↓ | 1-20 UNEF-2A | ↓ | ↓ | ↓ |
| 18 | .860 | 1.007 1.002 | 1.131 1.126 | 1.187 | .919 | .992 | 1.062 | 1.062 | 1.343 | 1.209 | ↓ | 1 1/16-18 UNEF-2A | ↓ | ↓ | ↓ |
| 20 | .985 | 1.132 1.127 | 1.256 1.251 | 1.312 | 1.044 | 1.117 | 1.187 | 1.156 | 1.437 | 1.337 | .120 | 1 3/16-18 UNEF-2A | ↓ | ↓ | ↓ |
| 24 | 1.235 | 1.382 1.377 | 1.506 1.501 | 1.562 | 1.294 | 1.367 | 1.437 | 1.375 | 1.703 | 1.577 | .149 | 1 7/16-18 UNEF-2A | 50 | 170 | 290 |

| SHELL SIZE | A | B | C | D | E | F | G | H | J | K | L |
|------------|--------|------------------|------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| 12 | 14.173 | 17.907 17.778 | 21.057 20.930 | 22.225 | 15.570 | 17.450 | 19.050 | 20.625 | 26.187 | 23.190 | 3.048 |
| 14 | 15.926 | 19.660 19.533 | 22.809 22.682 | 23.749 | 18.745 | 20.625 | 22.225 | 23.012 | 28.575 | 24.892 | ↑ |
| 16 | 19.609 | 22.889 22.760 | 26.035 25.908 | 26.975 | 21.920 | 23.800 | 25.400 | 24.613 | 31.750 | 28.118 | ↓ |
| 18 | 21.844 | 25.578 25.451 | 28.727 28.600 | 30.150 | 23.343 | 25.197 | 26.975 | 26.975 | 34.112 | 30.709 | ↓ |
| 20 | 25.019 | 28.753 28.626 | 31.902 31.775 | 33.325 | 26.518 | 28.372 | 30.150 | 29.362 | 36.500 | 33.960 | 3.048 |
| 24 | 31.369 | 35.103 34.976 | 38.252 38.125 | 39.765 | 32.868 | 34.722 | 36.500 | 34.925 | 43.256 | 40.056 | 3.785 |

| PART NUMBER | WEIGHT in Grams Nominal |
|---------------|-------------------------|
| RD10A-12-08PX | 15.58 |
| RD10A-12-08SX | TBD |
| RD10A-14-12PX | 18.71 |
| RD10A-14-12SX | TBD |
| RD10A-16-19PX | 21.96 |
| RD10A-16-19SX | TBD |
| RD10A-18-23PX | 24.97 |
| RD10A-18-23SX | TBD |
| RD10A-20-31PX | 28.55 |
| RD10A-20-31SX | TBD |
| RD10A-24-51PX | TBD |
| RD10A-24-51SX | TBD |

| CABLE TYPE | PIN | SOCKET |
|--------------|----------|----------|
| COAX | D-602-44 | D-602-45 |
| TWISTED PAIR | D-602-54 | D-602-55 |
| PRIMARY WIRE | D-610-09 | D-610-10 |

PART NUMBER IDENTIFICATION:



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TE Connectivity

RD1 SERIES CONNECTOR, RECEPTACLE

RD10AXX-XXP/SX

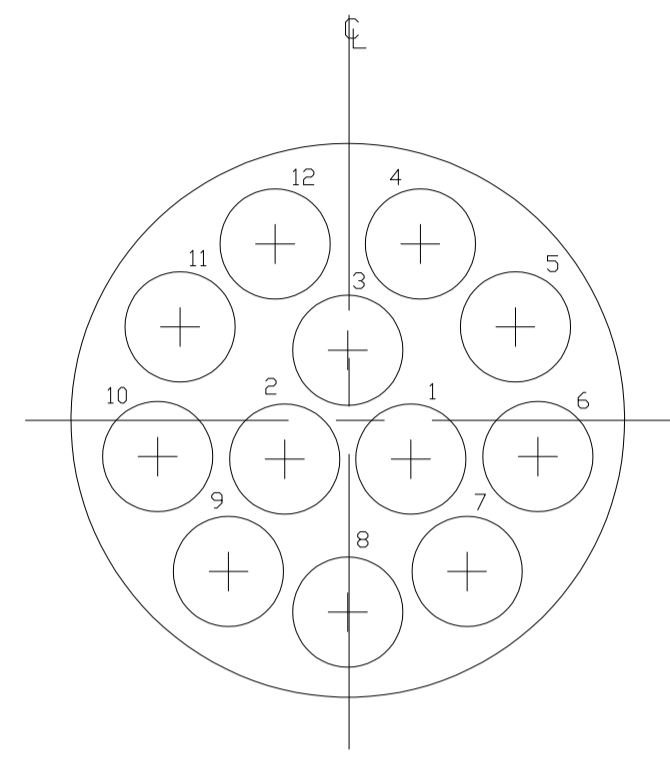
SCALE: NTS SHEET 1 OF 3 REV G

▼
SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



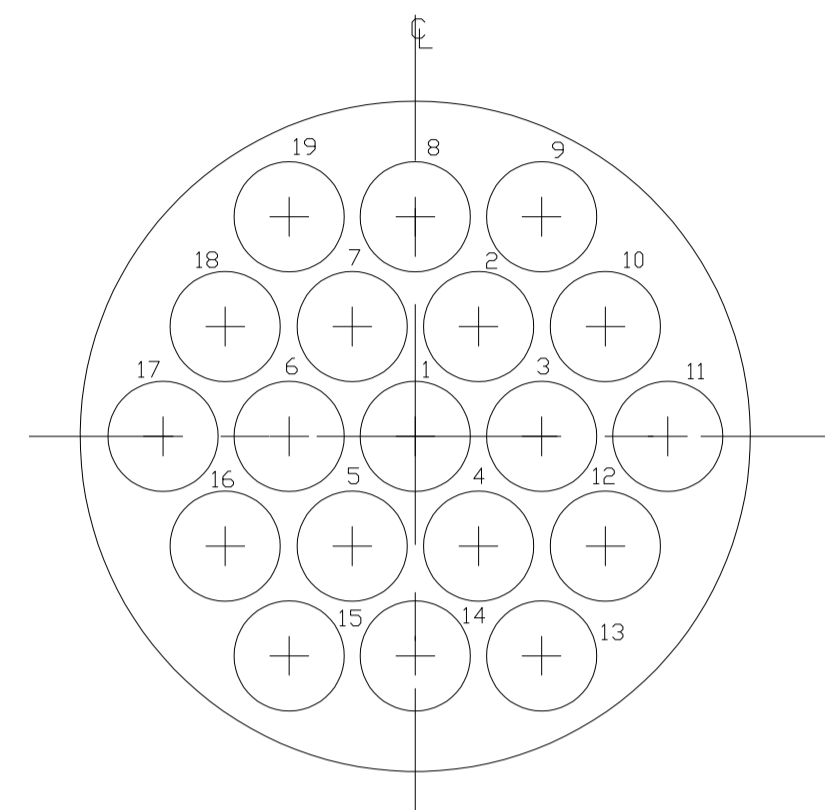
12-08
8 #16 CAVITIES

▼
SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



14-12
12 #16 CAVITIES

▼
SYM. ABOUT INSERT CENTER LINE



16-19
19 #16 CAVITIES

▼
SYM. ABOUT INSERT CENTER LINE



18-23
23 #16 CAVITIES

▼
SYM. ABOUT INSERT CENTER LINE



20-31
31 #16 CAVITIES

▼
SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



24-51
51 #16 CAVITIES

- 1. FULLY MATED COUPLING STRIPES SHALL BE COLOR CODED BLUE IN LINE WITH THE BAYONET PINS ON THE RECEPTACLE SHELL.
- 2. MATERIAL: METAL PARTS, EXCLUSIVE OF BAYONET PINS, COUPLING RING SPRING SHALL BE HIGH GRADE ALUMINUM ALLOY CONFORMING TO ASTM B 211 / SAE AMS-QQ-A 225/10. BAYONET PINS AND COUPLING RING SPRING SHALL BE STAINLESS STEEL.
- 3. INSERT MATERIAL-MINERAL FILLED PHENDLIC PER ASTM-D5948, TYPE MFH
- 4. CONNECTOR IDENTIFICATION SHALL CONSIST OF NAME RAYCHEM, TE CONNECTIVITY PART NUMBER, MIS DESCRIPTION (PER TABLE V) AND THE LOT CONTROL NO. OR DATE CODE. ALL CHARACTERS SHALL BE A MINIMUM OF 1/32" IN HEIGHT AND SHALL BE PERMANENTLY AND LEGIBLY MARKED IN LOCATIONS SHOWN. MARKING SHALL BE WITHIN 265° CIRCUMFERENCE. MARKING SHALL BE READ FROM THE MATING FACE UP FOR THE PLUG AND MATING FACE DOWN FOR THE RECEPTACLE.
- 5. CAVITY IDENTIFICATION NUMBERS SHALL BE AS LARGE AS POSSIBLE, OF A CONTRASTING COLOR, AND LOCATED APPROXIMATELY AS SHOWN.
- 6. CONTACT IDENTIFICATION IS SHOWN BY LOOKING AT FRONT PIN INSERT FACE. FRONT SOCKET INSERT FACE IS OPPOSITE. REAR PIN INSERT FACE IS OPPOSITE. REAR SOCKET INSERT FACE IS AS SHOWN.
- 7. ▼ INDICATES SHELL MASTER KEY OR KEYWAY POSITION.
- 8. SHELL PLATING: CADMIUM PER SAE AMS-QQ-P 416, TYPE II, CLASS 3, .0002/.0005 INCH, OLIVE DRAB, CONDUCTIVE OVER .0002/.0004 INCH ELECTROLESS NICKEL PLATE PER SAE AMS 2404
- 9. THESE DIMENSIONS ARE SHOWING THE POSITION OF THE PIN AND SOCKET CONTACTS.
- 10. THIS PRODUCT IS QUALIFIED TO TYCO ELECTRONICS SPECIFICATION D-6001 PER TEST REPORT TR3-6540-001.

| | | | | |
|--|----------------------|--------------------------------|----------------------------------|--------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DIN C.C.THOMAS 03FEB2014 | TE Connectivity | |
| DIMENSIONS: INCHES | | CHK K.HOGAN 2-3-14 | | |
| TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME K.HOGAN 2-3-14 | RD1 SERIES CONNECTOR, RECEPTACLE | |
| 0. PLC ± - | 1. PLC ± - | PRODUCT SPEC | - | |
| 2. PLC ± .01 [0.3] | 3. PLC ± .005 [0.13] | APPLICATION SPEC | - | |
| 4. PLC ± - ± 1° | ANGLES | SIZE | CAGE CODE | DRAWING NO |
| MATERIAL | FINISH | WEIGHT | SEE TABLE III | A1 00779 |
| CUSTOMER DRAWING | | SCALE | NTS | SHEET 2 OF 3 |

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| LOC | | DIST | | REVISIONS | | | |
|-----|-----|-------------|------|-----------|------|---|---|
| P | LTR | DESCRIPTION | DATE | DN | APVD | | |
| - | - | SEE SHEET 1 | - | - | - | - | - |

| TABLE V | | |
|----------------|-----------------|------------|
| PART NUMBER | MIS DESCRIPTION | RPN |
| RD10A12-08-PN | MIS-20065/1-001 | 056815-000 |
| RD10A12-08-P6 | MIS-20065/1-002 | 827981-000 |
| RD10A12-08-P7 | MIS-20065/1-003 | 143129-000 |
| RD10A12-08-P8 | MIS-20065/1-004 | 600243N007 |
| RD10A12-08-P9 | MIS-20065/1-005 | N/A |
| RD10A12-08-P10 | MIS-20065/1-006 | N/A |
| | | |
| RD10A14-12-PN | MIS-20065/1-007 | 600246N009 |
| RD10A14-12-P6 | MIS-20065/1-008 | 600247N007 |
| RD10A14-12-P7 | MIS-20065/1-009 | 600248N007 |
| RD10A14-12-P8 | MIS-20065/1-010 | 600249N006 |
| RD10A14-12-P9 | MIS-20065/1-011 | 330035-000 |
| RD10A14-12-P10 | MIS-20065/1-012 | 539255-000 |
| | | |
| RD10A16-19-PN | MIS-20065/1-013 | 600252N009 |
| RD10A16-19-P6 | MIS-20065/1-014 | 600253N007 |
| RD10A16-19-P7 | MIS-20065/1-015 | 429283-000 |
| RD10A16-19-P8 | MIS-20065/1-016 | 600255N006 |
| RD10A16-19-P9 | MIS-20065/1-017 | 182749-000 |
| RD10A16-19-P10 | MIS-20065/1-018 | 112055-000 |
| | | |
| RD10A18-23-PN | MIS-20065/1-019 | 600258N009 |
| RD10A18-23-P6 | MIS-20065/1-020 | 600259N006 |
| RD10A18-23-P7 | MIS-20065/1-021 | 936753-000 |
| RD10A18-23-P8 | MIS-20065/1-022 | 600261N005 |
| RD10A18-23-P9 | MIS-20065/1-023 | 600262N004 |
| RD10A18-23-P10 | MIS-20065/1-024 | N/A |
| | | |
| RD10A20-31-PN | MIS-20065/1-025 | 600264N008 |
| RD10A20-31-P6 | MIS-20065/1-026 | 600265N008 |
| RD10A20-31-P7 | MIS-20065/1-027 | 600266N007 |
| RD10A20-31-P8 | MIS-20065/1-028 | 600267N007 |
| RD10A20-31-P9 | MIS-20065/1-029 | 600268N005 |
| RD10A20-31-P10 | MIS-20065/1-030 | N/A |
| | | |
| RD10A24-51-PN | MIS-20065/1-031 | 600270N009 |
| RD10A24-51-P6 | MIS-20065/1-032 | 600271N009 |
| RD10A24-51-P7 | MIS-20065/1-033 | 412579-000 |
| RD10A24-51-P8 | MIS-20065/1-034 | 600273N007 |
| RD10A24-51-P9 | MIS-20065/1-035 | 600274N006 |
| RD10A24-51-P10 | MIS-20065/1-036 | 600275N005 |

NOTE: ALL CONNECTORS LISTED ON TABLE V ARE MEETING THE REQUIREMENTS OF CS051/1. PARTS ARE MARKED WITH PART NUMBER AND MIS DESCRIPTION. THE CS051/1 PORTION OF THE PART NUMBER IDENTIFICATION IS NOT INCLUDED IN THE PART NUMBER MARKING.

| | | | | | |
|---|--|--|--|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DIN C.C.THOMAS 05FEB2014 | | STE TE Connectivity | |
| DIMENSIONS: INCHES | | TOLERANCES UNLESS OTHERWISE SPECIFIED: | | NAME RDI SERIES CONNECTOR, RECEPTACLE | |
|  | | 0. PLC ± - 1. PLC ± - 2. PLC ± .01 [0.3] 3. PLC ± .005 [0.13] 4. PLC ± - ± 1° ANGLES ± - ± 1° | | APVD K.HOGAN 2-3-14 PRODUCT SPEC APPLICATION SPEC | |
| MATERIAL - | | FINISH - | | WEIGHT SEE TABLE III SIZE A1 CAGE CODE 00779 DRAWING NO RD10AXX-XXP/SX RESTRICTED TO - | |
| CUSTOMER DRAWING | | | | SCALE NTS SHEET 3 OF 3 REV G | |

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JONHON

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