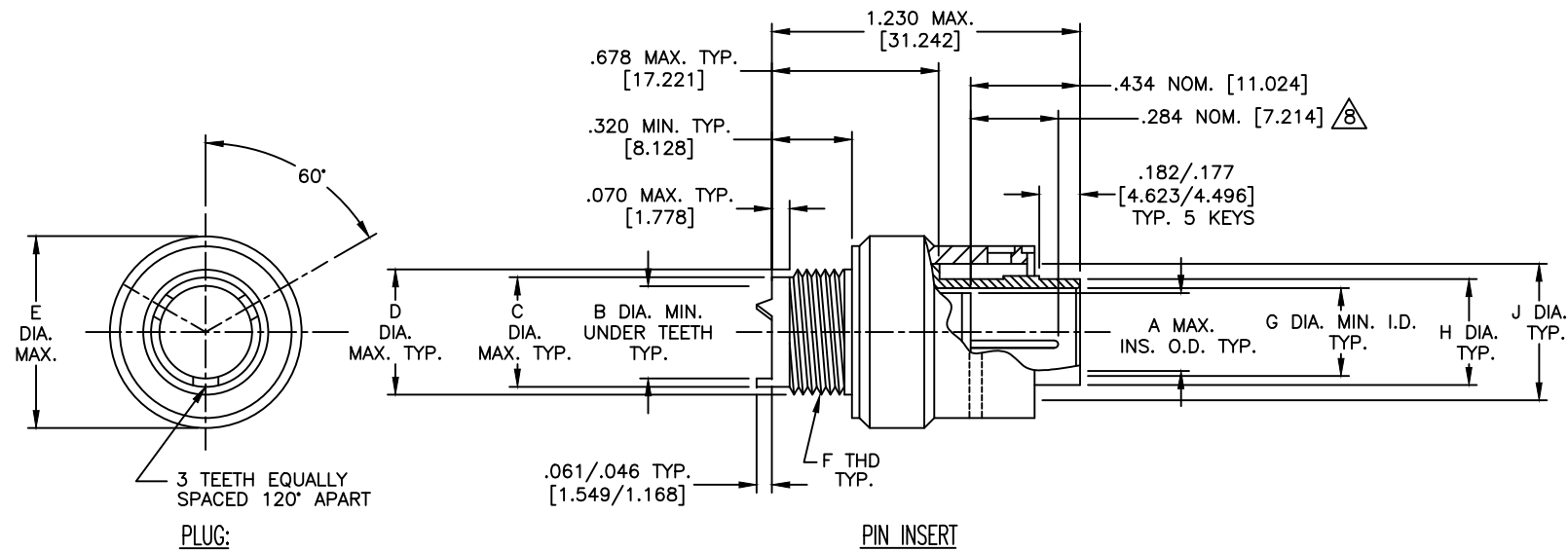


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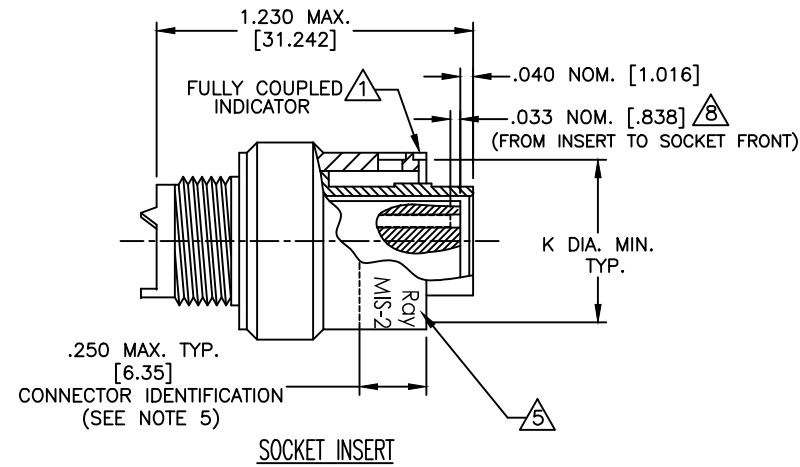
| REVISIONS |                          |         |          |
|-----------|--------------------------|---------|----------|
| LTR       | DESCRIPTION              | DATE    | APPROVED |
| G         | REV PER ECO 13-001461 CT | 4-29-13 | KH       |

D



PLUG:

PIN INSERT



SOCKET INSERT

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 | TABLE II<br>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 |

| TABLE I    |       |       |       |       |       |                   |       |                |                |       |
|------------|-------|-------|-------|-------|-------|-------------------|-------|----------------|----------------|-------|
| SHELL SIZE | A     | B     | C     | D     | E     | F                 | G     | H              | J              | K     |
| 12         | .558  | .613  | .687  | .750  | 1.078 | 3/4-20 UNEF-2A    | .598  | .696<br>.691   | .837<br>.832   | .930  |
| 14         | .627  | .738  | .812  | .875  | 1.141 | 7/8-20 UNEF-2A    | .667  | .765<br>.760   | .906<br>.901   | .999  |
| 16         | .772  | .863  | .937  | 1.000 | 1.266 | 1-20 UNEF-2A      | .794  | .892<br>.887   | 1.033<br>1.028 | 1.126 |
| 18         | .860  | .919  | .992  | 1.062 | 1.375 | 1 1/16-18 UNEF-2A | .900  | .998<br>.993   | 1.139<br>1.134 | 1.232 |
| 20         | .985  | 1.044 | 1.117 | 1.187 | 1.510 | 1 3/16-18 UNEF-2A | 1.025 | 1.123<br>1.118 | 1.266<br>1.261 | 1.357 |
| 24         | 1.235 | 1.294 | 1.367 | 1.437 | 1.760 | 1 7/16-18 UNEF-2A | 1.275 | 1.373<br>1.368 | 1.516<br>1.511 | 1.607 |

METRIC EQUIVALENT MM

| SHELL SIZE | A      | B      | C      | D      | E      | G      | H                | J                | K      |
|------------|--------|--------|--------|--------|--------|--------|------------------|------------------|--------|
| 12         | 14.173 | 15.570 | 17.450 | 19.050 | 27.381 | 15.189 | 17.678<br>17.551 | 21.260<br>21.133 | 23.622 |
| 14         | 15.926 | 18.745 | 20.625 | 22.225 | 28.981 | 16.942 | 19.431<br>19.304 | 23.012<br>22.885 | 25.375 |
| 16         | 19.609 | 21.920 | 23.800 | 25.400 | 32.156 | 20.168 | 22.657<br>22.530 | 26.238<br>26.111 | 28.600 |
| 18         | 21.844 | 23.343 | 25.197 | 26.975 | 34.925 | 22.860 | 25.349<br>25.222 | 28.931<br>28.804 | 31.293 |
| 20         | 25.019 | 26.518 | 28.372 | 30.150 | 38.354 | 26.035 | 28.524<br>28.397 | 32.156<br>32.029 | 34.468 |
| 24         | 31.369 | 32.868 | 34.722 | 36.500 | 44.704 | 32.385 | 34.874<br>34.747 | 38.506<br>38.379 | 40.818 |

| TABLE III     |                         |
|---------------|-------------------------|
| PART NUMBER   | WEIGHT in Grams Nominal |
| RD16A-12-08PX | TBD                     |
| RD16A-12-08SX | 22.94                   |
| RD16A-14-12PX | 23.25                   |
| RD16A-14-12SX | TBD                     |
| RD16A-16-19PX | TBD                     |
| RD16A-16-19SX | 28.74                   |
| RD16A-18-23PX | TBD                     |
| RD16A-18-23SX | 34.03                   |
| RD16A-20-31PX | TBD                     |
| RD16A-20-31SX | 39.74                   |
| RD16A-24-51PX | TBD                     |
| RD16A-24-51SX | 51.29                   |

| TABLE IV     |          |          |
|--------------|----------|----------|
| 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:

RD1 6 A XX-XX X X-CSXXXX

CUSTOMER PART NUMBER AS REQUESTED

KEY POSITION: NORMAL= N  
(SEE TABLE II)

CONTACT STYLE:  
P = PIN (POWER OR SHIELDED CONTACT SEE TABLE IV)  
S = SOCKET (POWER OR SHIELDED CONTACT SEE TABLE IV)

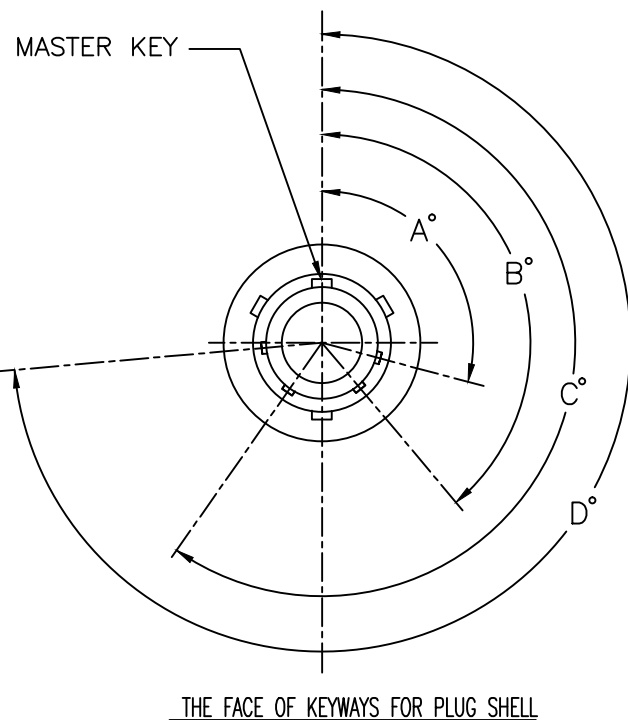
LAYOUT SHELL NUMBER OF  
SIZE CAVITIES (SEE SHEET 2)

SHELL SIZE  
(SEE TABLE I)

SHELL PLATING: A - CADMIUM  
(OPTIONAL G - ELECTROLESS NICKEL)

SHELL TYPE: 6 - PLUG, R.F.I. GROUNDING

RAYCHEM CONNECTOR SERIES RD1



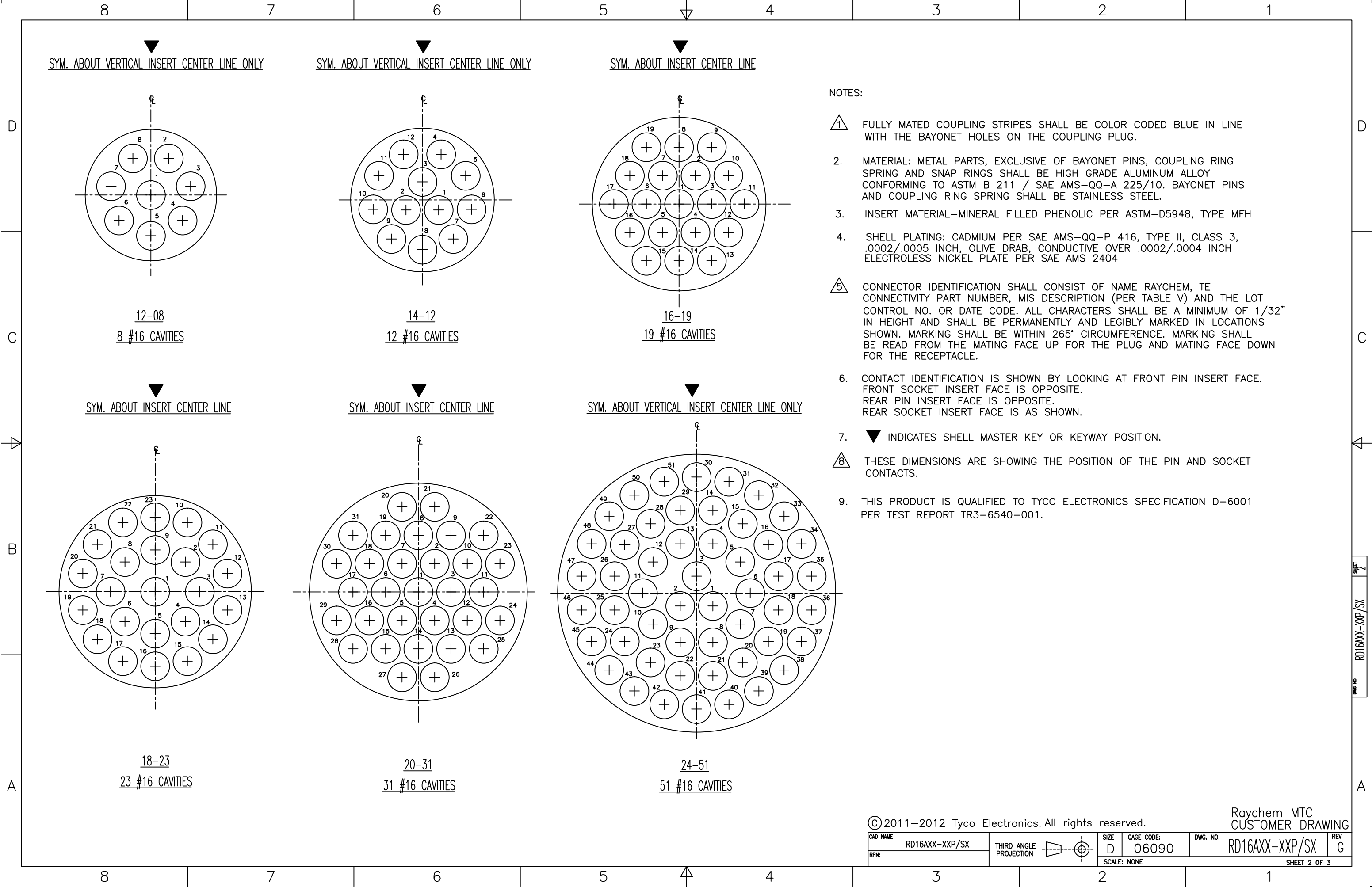
THE FACE OF KEYWAYS FOR PLUG SHELL

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Raychem MTC  
CUSTOMER DRAWING

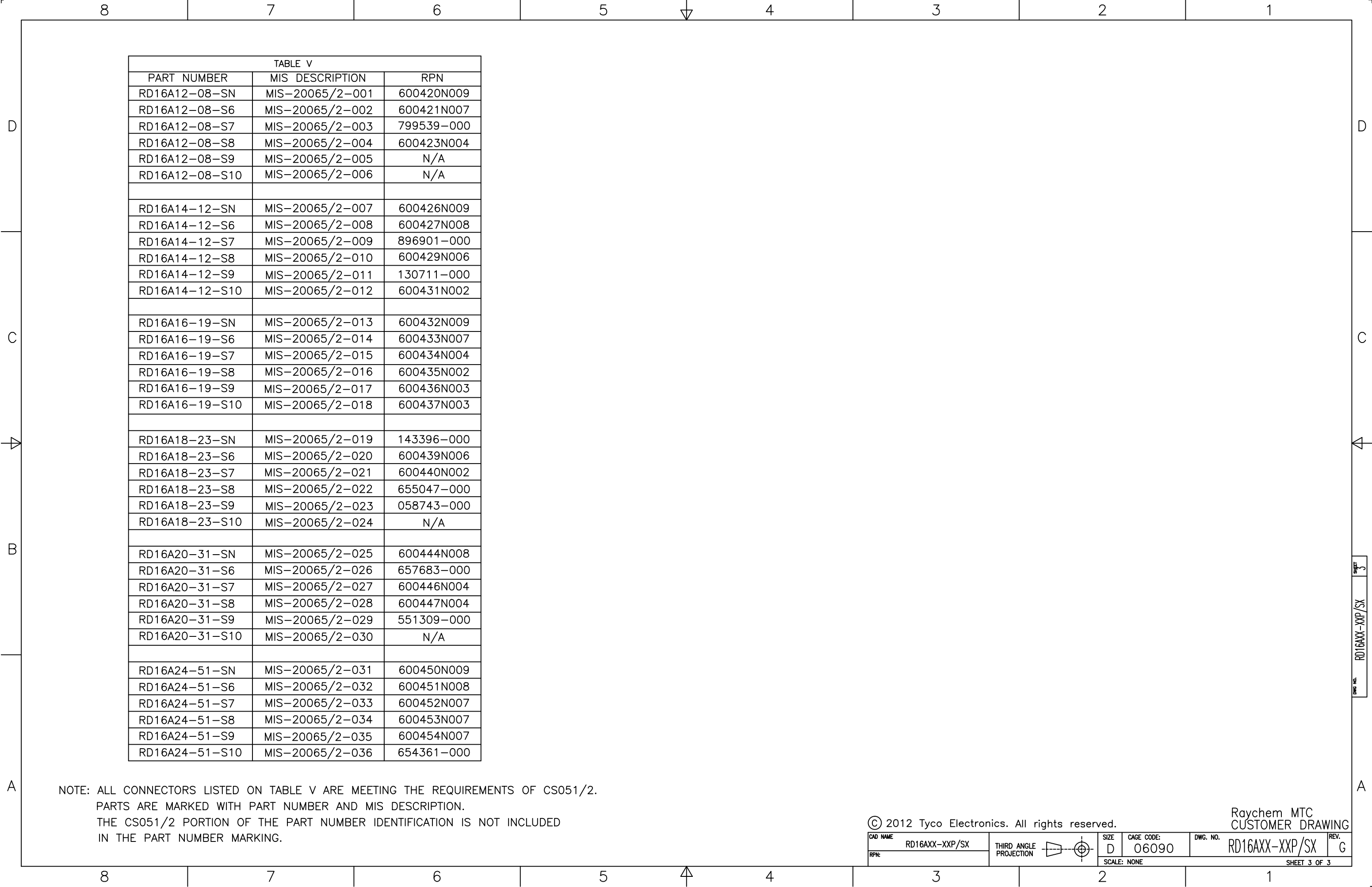
|                                                                                                                                                                                                                                                                                              |  |                                                                                                  |  |                                    |  |                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|------------------------------------|--|---------------------------------------|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                                                                                                                                                                                                                       |  | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES.<br>METRIC DIMENSIONS ARE<br>IN BRACKETS. |  | DRAWN<br>Zsofia O.<br>Nov/19/2010  |  | DATE<br>Nov/19/2010                   |  |
| DIMENSIONING AND TOLERANCING PER<br>ASME Y14.5M (ISO STANDARDS)                                                                                                                                                                                                                              |  | DECIMALS<br>.XXX ± .005 [.127 mm]<br>.XX ± .01 [.254 mm]<br>ANGLES 1°                            |  | CHECKED                            |  | DATE                                  |  |
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| THIRD ANGLE<br>PROJECTION                                                                                                                                                                                                                                                                    |  | CAD NAME<br>RD16AXX-XXP/SX                                                                       |  | RPN:                               |  | TITLE<br>RD1 SERIES CONNECTOR<br>PLUG |  |
| SIZE<br>D                                                                                                                                                                                                                                                                                    |  | CAGE CODE:<br>06090                                                                              |  | DWG. NO.<br>RD16AXX-XXP/SX         |  | REV<br>G                              |  |
| SCALE: NONE                                                                                                                                                                                                                                                                                  |  | SHEET 1 OF 3                                                                                     |  |                                    |  |                                       |  |

RD16AXX-XXP/SX



NOTES:

1. FULLY MATED COUPLING STRIPES SHALL BE COLOR CODED BLUE IN LINE WITH THE BAYONET HOLES ON THE COUPLING PLUG.
2. MATERIAL: METAL PARTS, EXCLUSIVE OF BAYONET PINS, COUPLING RING SPRING AND SNAP RINGS 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 PHENOLIC PER ASTM-D5948, TYPE MFH
4. 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
5. 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.
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. THESE DIMENSIONS ARE SHOWING THE POSITION OF THE PIN AND SOCKET CONTACTS.
9. THIS PRODUCT IS QUALIFIED TO TYCO ELECTRONICS SPECIFICATION D-6001 PER TEST REPORT TR3-6540-001.



| TABLE V        |                 |            |
|----------------|-----------------|------------|
| PART NUMBER    | MIS DESCRIPTION | RPN        |
| RD16A12-08-SN  | MIS-20065/2-001 | 600420N009 |
| RD16A12-08-S6  | MIS-20065/2-002 | 600421N007 |
| RD16A12-08-S7  | MIS-20065/2-003 | 799539-000 |
| RD16A12-08-S8  | MIS-20065/2-004 | 600423N004 |
| RD16A12-08-S9  | MIS-20065/2-005 | N/A        |
| RD16A12-08-S10 | MIS-20065/2-006 | N/A        |
|                |                 |            |
| RD16A14-12-SN  | MIS-20065/2-007 | 600426N009 |
| RD16A14-12-S6  | MIS-20065/2-008 | 600427N008 |
| RD16A14-12-S7  | MIS-20065/2-009 | 896901-000 |
| RD16A14-12-S8  | MIS-20065/2-010 | 600429N006 |
| RD16A14-12-S9  | MIS-20065/2-011 | 130711-000 |
| RD16A14-12-S10 | MIS-20065/2-012 | 600431N002 |
|                |                 |            |
| RD16A16-19-SN  | MIS-20065/2-013 | 600432N009 |
| RD16A16-19-S6  | MIS-20065/2-014 | 600433N007 |
| RD16A16-19-S7  | MIS-20065/2-015 | 600434N004 |
| RD16A16-19-S8  | MIS-20065/2-016 | 600435N002 |
| RD16A16-19-S9  | MIS-20065/2-017 | 600436N003 |
| RD16A16-19-S10 | MIS-20065/2-018 | 600437N003 |
|                |                 |            |
| RD16A18-23-SN  | MIS-20065/2-019 | 143396-000 |
| RD16A18-23-S6  | MIS-20065/2-020 | 600439N006 |
| RD16A18-23-S7  | MIS-20065/2-021 | 600440N002 |
| RD16A18-23-S8  | MIS-20065/2-022 | 655047-000 |
| RD16A18-23-S9  | MIS-20065/2-023 | 058743-000 |
| RD16A18-23-S10 | MIS-20065/2-024 | N/A        |
|                |                 |            |
| RD16A20-31-SN  | MIS-20065/2-025 | 600444N008 |
| RD16A20-31-S6  | MIS-20065/2-026 | 657683-000 |
| RD16A20-31-S7  | MIS-20065/2-027 | 600446N004 |
| RD16A20-31-S8  | MIS-20065/2-028 | 600447N004 |
| RD16A20-31-S9  | MIS-20065/2-029 | 551309-000 |
| RD16A20-31-S10 | MIS-20065/2-030 | N/A        |
|                |                 |            |
| RD16A24-51-SN  | MIS-20065/2-031 | 600450N009 |
| RD16A24-51-S6  | MIS-20065/2-032 | 600451N008 |
| RD16A24-51-S7  | MIS-20065/2-033 | 600452N007 |
| RD16A24-51-S8  | MIS-20065/2-034 | 600453N007 |
| RD16A24-51-S9  | MIS-20065/2-035 | 600454N007 |
| RD16A24-51-S10 | MIS-20065/2-036 | 654361-000 |

NOTE: ALL CONNECTORS LISTED ON TABLE V ARE MEETING THE REQUIREMENTS OF CS051/2.  
PARTS ARE MARKED WITH PART NUMBER AND MIS DESCRIPTION.  
THE CS051/2 PORTION OF THE PART NUMBER IDENTIFICATION IS NOT INCLUDED  
IN THE PART NUMBER MARKING.

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|                            |                           |             |                     |                            |           |
|----------------------------|---------------------------|-------------|---------------------|----------------------------|-----------|
| CAD NAME<br>RD16AXX-XXP/SX | THIRD ANGLE<br>PROJECTION | SIZE<br>D   | CAGE CODE:<br>06090 | DWG. NO.<br>RD16AXX-XXP/SX | REV.<br>G |
| RPN:                       |                           | SCALE: NONE |                     | SHEET 3 OF 3               |           |