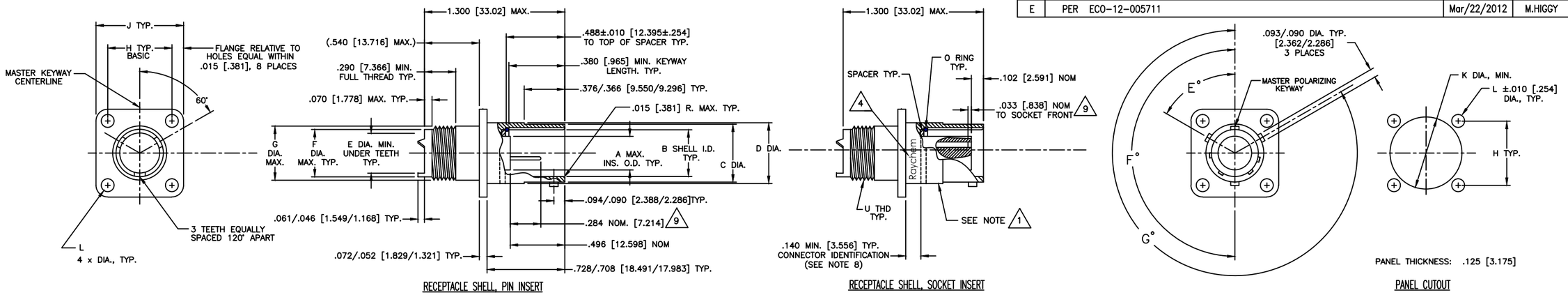
REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
D	PER ECO-12-001553	Jan/24/2012	M.HIGGY
E	PER ECO-12-005711	Mar/22/2012	M.HIGGY

SQUARE FLANGE MOUNT RECEPTACLES:

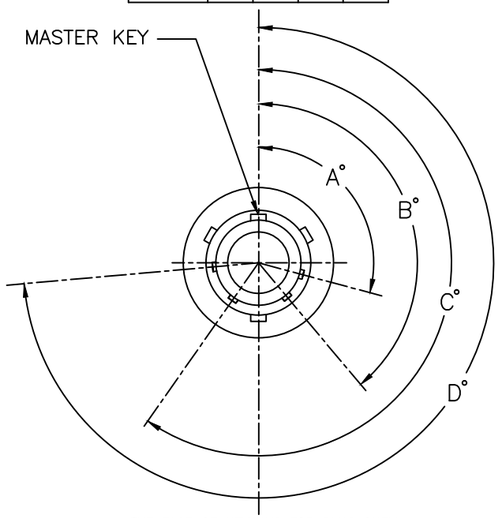


SHELL ALTERNATE KEYING POSITIONS:

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

TABLE II				
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

TABLE I															
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

METRIC EQUIVALENT MM

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

TABLE III	
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

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 0 A XX-XX X X

- KEY POSITION: NORMAL= N (SEE TABLE II) 6, 7, 8, 9, 10
- CONTACT STYLE: P = PIN (POWER OR SHIELDED CONTACT SEE TABLE IV) S = SOCKET (POWER OR SHIELDED CONTACT SEE TABLE IV)
- LAYOUT / SHELL SIZE (SEE TABLE I) — SHELL SIZE / NUMBER OF CAVITIES (SEE SHEET 2): 12 — 08, 14 — 12, 16 — 19, 18 — 23, 20 — 31, 24 — 51
- SHELL PLATING: A — CADMIUM (OPTIONAL G — ELECTROLESS NICKEL)
- SHELL TYPE: 0 — SQUARE FLANGE MOUNT RECEPTACLE
- RAYCHEM CONNECTOR SERIES RD1

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Raychem MTC CUSTOMER DRAWING

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DIMENSIONING AND TOLERANCING PER ASME Y14.5M (ISO STANDARDS)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS.
DECIMALS
.XXX ± .005 [.127 mm]
.XX ± .01 [.254 mm]
ANGLES 1°

MATERIAL: SEE NOTE 2
WEIGHT: SEE TABLE III

DRAWN: Zsofia O. DATE: Oct/7/2011
CHECKED: DATE:
APPROVED: M.HIGGY DATE: Oct/7/2011
THIRD ANGLE PROJECTION
CAD NAME: RD10AXX-XXP/SX
FINISH: SEE NOTE 8

TE Connectivity

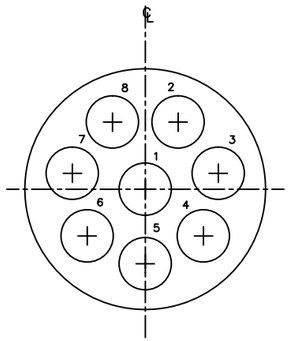
TITLE: RD1 SERIES CONNECTOR RECEPTACLE

SIZE	CAGE CODE:	DWG. NO.	REV.
D	06090	RD10AXX-XXP/SX	E

SCALE: NONE SHEET 1 OF 2

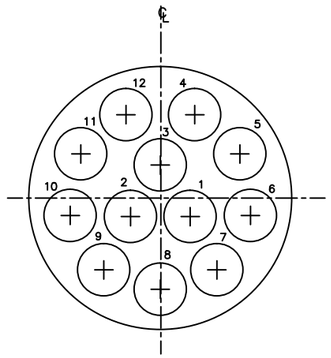
SHEET 1
DWG NO. RD10AXX-XXP/SX

SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



12-08
8 #16 CAVITIES

SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



14-12
12 #16 CAVITIES

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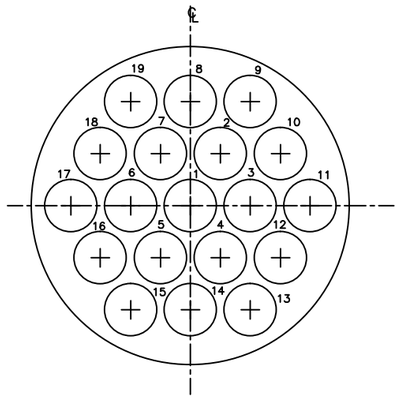
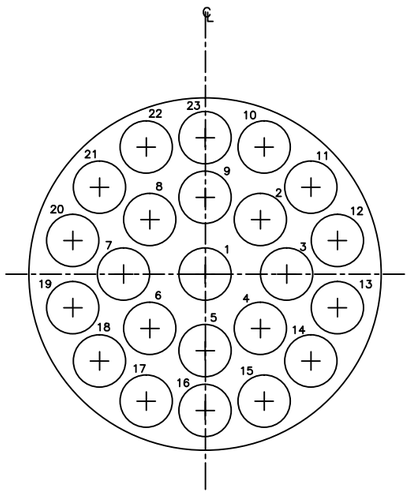


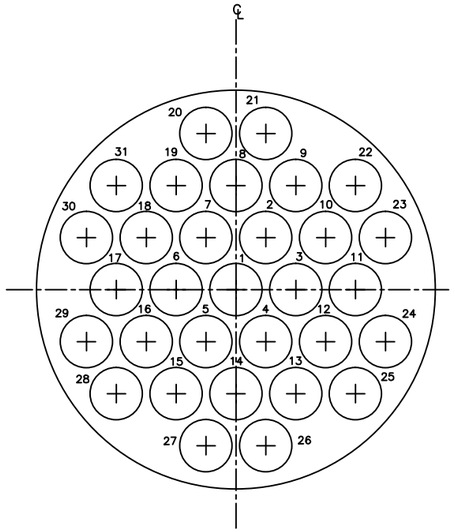
16-19
19 #16 CAVITIES

SYM. ABOUT INSERT CENTER LINE



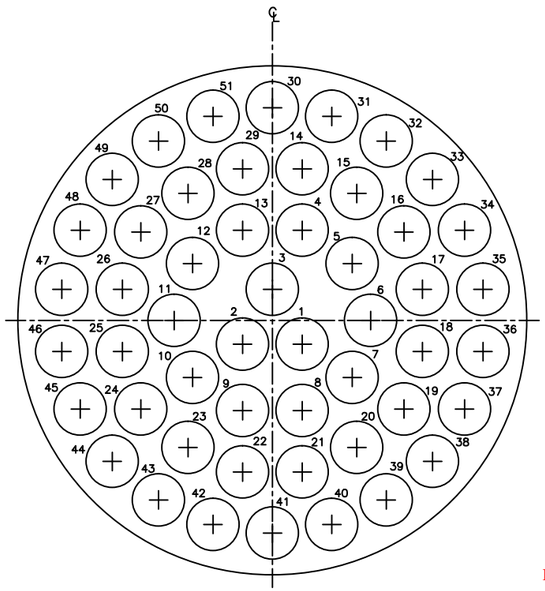
18-23
23 #16 CAVITIES

SYM. ABOUT INSERT CENTER LINE



20-31
31 #16 CAVITIES

SYM. ABOUT VERTICAL INSERT CENTER LINE ONLY



24-51
51 #16 CAVITIES

NOTES:

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 PHENOLIC PER ASTM-D5948, TYPE MFH
4. CONNECTOR IDENTIFICATION SHALL CONSIST OF NAME RAYCHEM, TYCO ELECTRONICS PART NUMBER 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.

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CUSTOMER DRAWING

CAD NAME	THIRD ANGLE PROJECTION	SIZE	CAGE CODE:	DWG. NO.	REV.
RD10AXX-XXP/SX		D	06090	RD10AXX-XXP/SX	E
RPN:		SCALE: NONE		SHEET 2 OF 2	

DWG NO. RD10AXX-XXP/SX SHEET 2