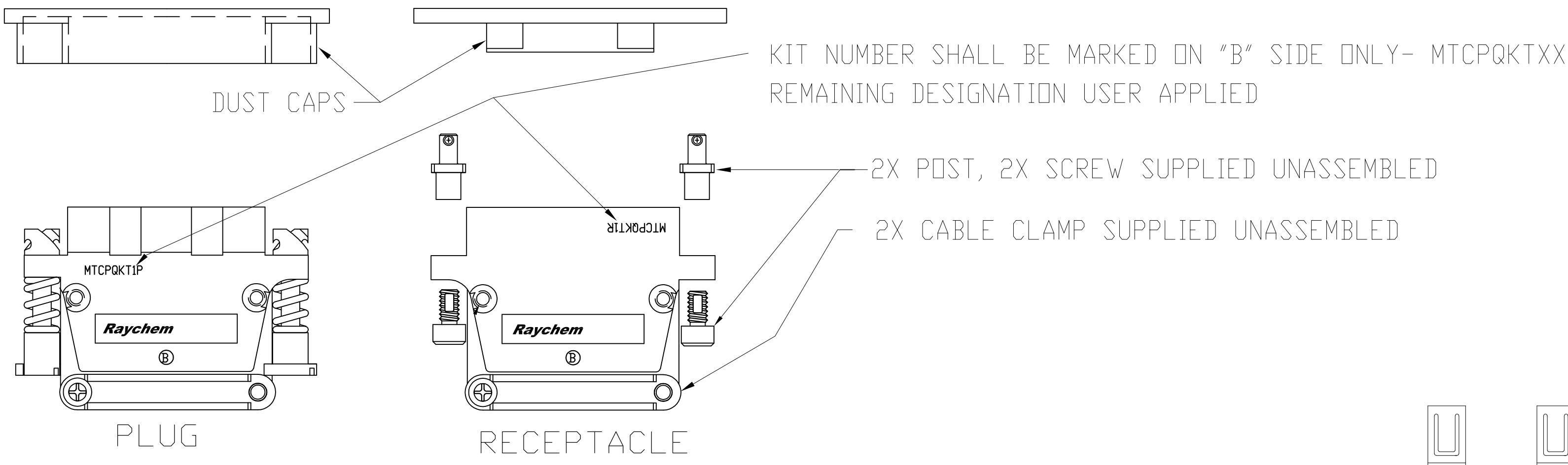


PART NO. VARIABLES:

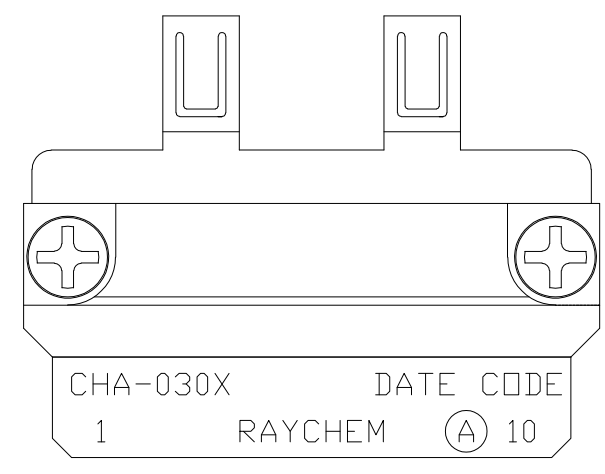
MTCPQKTXXXXXXXX

- KEYING CODE AA THRU DD (SEE TABLE I)
- G = SHIELD GROUND BUS BAR & GROUND BLOCK INSTALLED (SEE TABLE II FOR THE RECOMMENDED GROUND BLOCK PART NUMBERS)
- F = NO SHIELD GROUND BUS BAR OR GROUND BLOCK
- P = PIN INSERT (SEE TABLE III FOR THE RECOMMENDED PIN CONTACT PART NUMBERS)
- S = SOCKET INSERT (SEE TABLE III FOR THE RECOMMENDED SOCKET CONTACT PART NUMBERS)
- N = NO CONTACTS
- 0 = NO INSERTS
- 2 = 1" CONNECTOR, INSERT SIZE 22 (SEE TABLE IV)
- 6 = 1" CONNECTOR, INSERT SIZE 16 (SEE TABLE IV)
- 22 = 2" CONNECTOR, INSERTS SIZE 22 PRIMARY & SECONDARY (SEE TABLE IV)
- 26 = 2" CONNECTOR, INSERTS SIZE 22 PRIMARY & SIZE 16 SECONDARY (SEE TABLE IV)
- 62 = 2" CONNECTOR, INSERTS SIZE 16 PRIMARY & SIZE 22 SECONDARY (SEE TABLE IV)
- 66 = 2" CONNECTOR, INSERTS SIZE 16 PRIMARY & SECONDARY (SEE TABLE IV)
- P = PLUG
- R = RECEPTACLE
- F = FLENGED RECEPTACLE
- 1 = 1" INCH CONNECTOR
- 2 = 2" INCH CONNECTOR
- KIT
- MTC CONNECTOR, POWER BLOCK, QUICK DISCONNECT

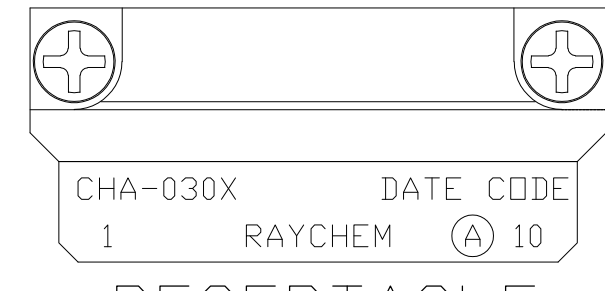


PERFORMANCE

MTCPQ MEETS RAYCHEM SPECIFICATION C-6114.  
DESIGNED TO MEET ARINC-600 ENVIRONMENTAL REQUIREMENTS.



PLUG



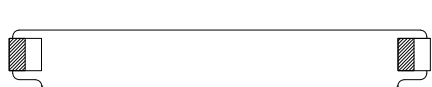
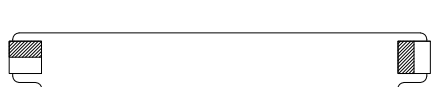
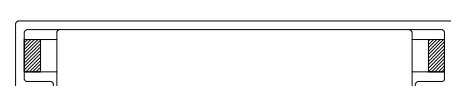
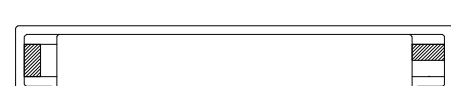
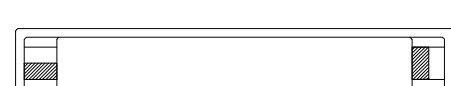
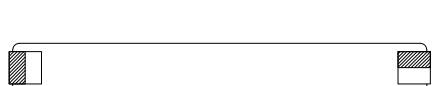
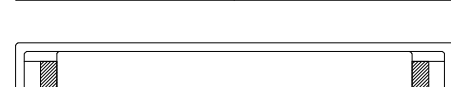
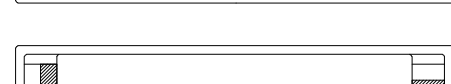
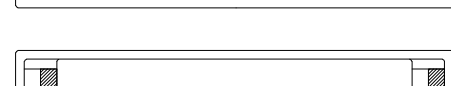
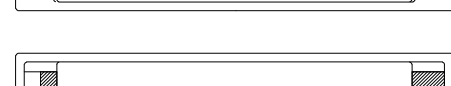
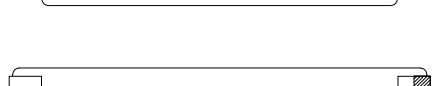
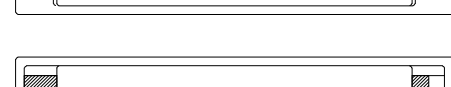
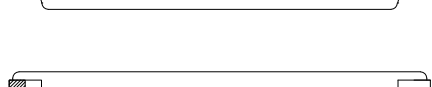
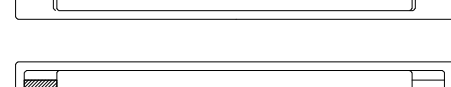
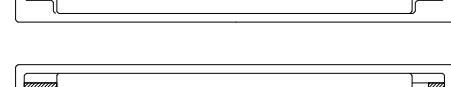
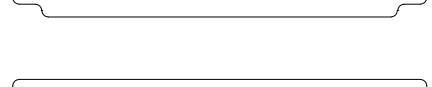
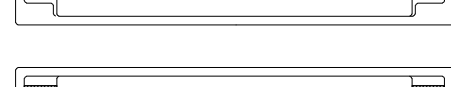
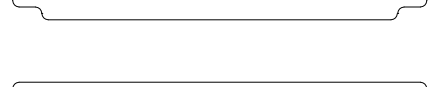
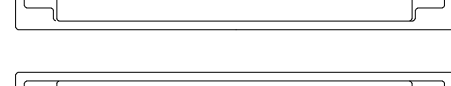
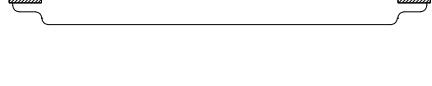
RECEPTACLE

GROUNDING BLOCK  
(1-INCH SHOWN)

| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| —         | —   | SEE SHEET 1 | —    | —   | —    |

TABLE I: KEYING CODES

POSITION OF PROJECTING TAB (TYP)

|                                                                                     |       |                                                                                       |
|-------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|
|    | -A A- |    |
|    | -A B- |    |
|    | -A C- |    |
|    | -A D- |    |
|    | -B A- |    |
|    | -B B- |    |
|    | -B C- |    |
|    | -B D- |    |
|  | -C A- |  |
|  | -C B- |  |
|  | -C C- |  |
|  | -C D- |  |
|  | -D A- |  |
|  | -D B- |  |
|  | -D C- |  |
|  | -D D- |  |
|  | -X X- |  |

RECEPTACLE

CODE

PLUG

TABLE II: SHIELD GROUNDING

|            | 1" ACCESSORY CONTACTS                                 | 2" ACCESSORY CONTACTS                                 |
|------------|-------------------------------------------------------|-------------------------------------------------------|
| PLUG       | 1X CHA-0307<br>OR<br>1X CHA-0303<br>10X M39029/58-360 | 1X CHA-0308<br>OR<br>1X CHA-0304<br>20X M39029/58-360 |
| RECEPTACLE | 1X CHA-0305<br>OR<br>1X CHA-0301<br>10X M39029/58-360 | 1X CHA-0306<br>OR<br>1X CHA-0302<br>20X M39029/58-360 |

CONTACTS SHOWN IN TABLE II AND III ARE NOT INCLUDED IN THE KIT. CUSTOMER HAS TO BUY THEM SEPARATELY.

TABLE III: MTCP CRIMP CONTACTS

|        | SIZE | RAYCHEM P/N | MILITARY P/N  |
|--------|------|-------------|---------------|
| PIN    | 16   | CTA-0079    | M39029/58-364 |
|        | 22   | CTA-0166    |               |
| SOCKET | 16   | CTA-0078    | M39029/57-358 |
|        | 22   | CTA-0165    |               |

GROUNDING BLOCKS ARE INSTALLED WITH A TIGHTENING TORQUE OF 8.0±0.4 INCH-POUNDS.

| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
| —         | —   | SEE SHEET 1 | —    | —   | —    |

| TABLE IV: MTCP CRIMP INSERTS                                                                                                                                                                  |        |            |              |           |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|--------------|-----------|-------------------|
| CODE                                                                                                                                                                                          | GENDER | CONN. SIZE | CONTACT SIZE | TYPE      | PART NUMBER       |
| 2                                                                                                                                                                                             | PIN    | 1 INCH     | 22           | --        | MTCP-122-20PQ     |
|                                                                                                                                                                                               | SOCKET | 1 INCH     | 22           | --        | MTCP-122-20S      |
| 6                                                                                                                                                                                             | PIN    | 1 INCH     | 16           | --        | MTCP-116-05P1 (※) |
|                                                                                                                                                                                               | SOCKET | 1 INCH     | 16           | --        | MTCP-116-05S1 (※) |
| 22                                                                                                                                                                                            | PIN    | 2 INCH     | 22           | PRIMARY   | MTCP-122-20PQ1    |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 22           | PRIMARY   | MTCP-122-20S1     |
|                                                                                                                                                                                               | PIN    | 2 INCH     | 22           | SECONDARY | MTCP-122-20PQ2    |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 22           | SECONDARY | MTCP-122-20S2     |
| 26                                                                                                                                                                                            | PIN    | 2 INCH     | 22           | PRIMARY   | MTCP-122-20PQ1    |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 22           | PRIMARY   | MTCP-122-20S1     |
|                                                                                                                                                                                               | PIN    | 2 INCH     | 16           | SECONDARY | MTCP-116-05P2     |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 16           | SECONDARY | MTCP-116-05S2     |
| 62                                                                                                                                                                                            | PIN    | 2 INCH     | 16           | PRIMARY   | MTCP-116-05P1     |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 16           | PRIMARY   | MTCP-116-05S1     |
|                                                                                                                                                                                               | PIN    | 2 INCH     | 22           | SECONDARY | MTCP-122-20PQ2    |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 22           | SECONDARY | MTCP-122-20S2     |
| 66                                                                                                                                                                                            | PIN    | 2 INCH     | 16           | PRIMARY   | MTCP-116-05P1     |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 16           | PRIMARY   | MTCP-116-05S1     |
|                                                                                                                                                                                               | PIN    | 2 INCH     | 16           | SECONDARY | MTCP-116-05P2     |
|                                                                                                                                                                                               | SOCKET | 2 INCH     | 16           | SECONDARY | MTCP-116-05S2     |
| (※) SIZE 16 INSERTS FOR THE 1" ( ONE INCH) SHELL ARE IDENTICAL TO THE PRIMARY INSERTS FOR THE 2" ( TWO INCH) SHELL. THIS APPLIES TO THE PLUG AND RECEPTACLE CONFIGURATION OF SIZE 16 INSERTS. |        |            |              |           |                   |

| TABLE V: MTCP CONNECTOR SHELLS |      |                  |
|--------------------------------|------|------------------|
| SHELL                          | SIZE | PART NUMBER      |
| PLUG                           | 1"   | MTC100Q-SH1-P22※ |
|                                | 2"   | MTC100Q-SH2-P22※ |
| RECEP.                         | 1"   | MTC100Q-SH1-R22※ |
|                                | 2"   | MTC100Q-SH2-R22※ |
| RECEP.                         | 1"   | MTC100Q-SH1-F22※ |
|                                | 2"   |                  |

※ "B" SIDE MARKING

| MTCP CRIMP CONNECTOR TOOLS                                        |      |                    |              |                  |
|-------------------------------------------------------------------|------|--------------------|--------------|------------------|
| COMPONENT                                                         | SIZE | TOOL TYPE          | TOOL P/N     | MANUFACTURER     |
| INSERTS                                                           | 22   | INS./EXTR. METAL   | CTA-0161     | RAYCHEM CORP.    |
|                                                                   | 16   | INS./EXTR. METAL   | CTA-0161     | RAYCHEM CORP.    |
| CONTACTS                                                          | 22   | INS./EXTR. PLASTIC | CTA-1160     | RAYCHEM CORP.    |
|                                                                   | 22   | EXTRACTION METAL   | ATBD 2062    | ASTRO TOOL CO.   |
|                                                                   | 22   | INSERTION METAL    | ATBD 1062    | ASTRO TOOL CO.   |
|                                                                   | 16   | INS./EXTR. PLASTIC | M81969/14-03 | MIL. SPEC.       |
|                                                                   | 16   | EXTRACTION METAL   | DRK83-16     | DANIELS MFG. CO. |
|                                                                   | 16   | INSERTION METAL    | DAK83-16     | DANIELS MFG. CO. |
|                                                                   | 22   | CRIMP BASIC        | M22520/2-01  | MIL. SPEC.       |
|                                                                   | 22   | PIN POSITIONER     | CE-1605900   | RAYCHEM CORP.    |
|                                                                   |      |                    | K817-11      | DANIELS MFG. CO. |
|                                                                   | 22   | SOCKET POSITIONER  | CE-1606000   | RAYCHEM CORP.    |
|                                                                   |      |                    | K818-11      | DANIELS MFG. CO. |
|                                                                   | 16   | CRIMP BASIC        | M22520/1-01  | MIL. SPEC.       |
|                                                                   | 16   | PIN POSITIONER     | M22520/1-04  | MIL. SPEC.       |
|                                                                   | 16   | SOCKET POSITIONER  | M22520/1-04  | MIL. SPEC.       |
| RECEPTACLE SHELL COUPLING ATTACHMENT SCREW = 7/64 ALLEN WRENCH    |      |                    |              |                  |
| PLUG SHELL COUPLING DRIVER = 7/64 ALLEN OR FLAT BLADE SCREWDRIVER |      |                    |              |                  |
| STRAIN RELIEF CABLE CLAMPS = #1 PHILLIPS SCREWDRIVER              |      |                    |              |                  |
| GROUNDING BLOCK CONNECTOR                                         |      |                    |              |                  |
| CONTACTS                                                          | 22D  | INS./EXTR. PLASTIC | M81969/14-01 | MIL. SPEC.       |
|                                                                   | 22D  | CRIMP BASIC        | M22520/2-01  | MIL. SPEC.       |
|                                                                   | 22D  | PIN POSITIONER     | M22520/2-09  | MIL. SPEC.       |
| GROUNDING BLOCK ATTACHMENT SCREW = #1 PHILLIPS SCREWDRIVER        |      |                    |              |                  |

| TABLE VI: DUST CAPS |      |             |
|---------------------|------|-------------|
| USED WITH           | SIZE | PART NUMBER |
| PLUG                | 1"   | D-659-0060  |
|                     | 2"   | D-659-0062  |
| RECEP.              | 1"   | CHA-1603    |
|                     | 2"   | CHA-1604    |

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