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| LOC | | DIST | | REVISIONS | | | |
|-----|-----|---------------------------|--------|-----------|------|--|--|
| P | LTR | DESCRIPTION | DATE | DWN | APVD | | |
| A | | REVISED PER E.O. C8206 | 110510 | - | RB | | |
| B | | UPDATED PER ECO-14-008850 | 140611 | CB | EA | | |
| C | | UPDATED PER ECO-16-000868 | 160126 | MJ | EA | | |



EXAMPLE OF PART NUMBER
 DTS 20 x xx - xx P/S x-xxxx

- MODIFICATION
- KEYING POSITION
N = NORMAL, A, B, C, D & E
- CONTACT STYLE
P = PIN S = SOCKET
A = LESS PIN B = LESS SOCKET
H = 1500 CYCLES - PIN J = 1500 CYCLES - SOCKET
- INSERT ARRANGEMENT
- SHELL SIZE
- CLASS F = NICKEL
G = NICKEL SPACE GRADE
T = TEFLON NICKEL
W = OLIVE DRAB CADMIUM
Z = ZINC NICKEL
- SHELL STYLE
20 = SQUARE FLANGE RECEPTACLE
- CONNECTOR SERIES
DEUTSCH MIL-DTL-38999 SERIES III

5. FOR AVAILABILITY CONSULT FACTORY. (C1)
4. FOR APPLICABLE KEYING DIAGRAM AND PANEL CUTOUT DIMENSIONS, SEE MIL-DTL-38999. FOR AVAILABLE INSERT ARRANGEMENTS, SEE MIL-STD-1560.
3. GENERAL SPECIFICATIONS: THIS CONNECTOR MEETS THE PERFORMANCE AND INTERMATEABILITY REQUIREMENTS OF MIL-DTL-38999, SERIES III.
2. MATERIAL / FINISH: SHELL - ALUMINUM ALLOY / PLATING PER EXAMPLE PART NUMBER DESCRIPTION.
 RESILIENT INSERTS - SILICONE ELASTOMER
 PLASTIC INSERTS - THERMOPLASTIC.
 CONTACTS - COPPER ALLOY / GOLD PLATED.
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. THREAD CALLOUTS ARE METRIC.

| SIZE | KEYING DESIGNATION LETTER | W° | X° | Y° | Z° |
|-----------------------|---------------------------|-----|-----|-----|-----|
| 9 | N | 105 | 140 | 215 | 265 |
| | A | 102 | 132 | 248 | 320 |
| | B | 80 | 118 | 230 | 312 |
| | C | 35 | 140 | 205 | 275 |
| | D | 64 | 155 | 234 | 304 |
| 11, 13 AND 15 | N | 95 | 141 | 208 | 236 |
| | A | 113 | 156 | 182 | 292 |
| | B | 90 | 145 | 195 | 252 |
| | C | 53 | 156 | 220 | 255 |
| | D | 119 | 146 | 176 | 298 |
| 17, 19, 21, 23 AND 25 | N | 80 | 142 | 196 | 293 |
| | A | 135 | 170 | 200 | 310 |
| | B | 49 | 169 | 200 | 244 |
| | C | 66 | 140 | 200 | 257 |
| | D | 62 | 145 | 180 | 280 |
| E | 79 | 153 | 197 | 272 | |

| PART NUMBER | SIZE | D THREAD | P+.004 -.002 | PP+.004 -.002 | R1 | R2 | S±.011 | V MAX. | W MAX. |
|-----------------|------|-------------------|-----------------|------------------|-------|-------|--------|-----------|-----------|
| DTS20x09-xxP/Sx | 09 | M12X1.0-6g 0.100R | .128 | .216 | .719 | .594 | .937 | .822 | .098 |
| DTS20x11-xxP/Sx | 11 | M15X1.0-6g 0.100R | .128 | .194 | .812 | .719 | 1.031 | .822 | .098 |
| DTS20x13-xxP/Sx | 13 | M18X1.0-6g 0.100R | .128 | .194 | .906 | .812 | 1.126 | .822 | .098 |
| DTS20x15-xxP/Sx | 15 | M22X1.0-6g 0.100R | .128 | .173 | .969 | .906 | 1.220 | .822 | .098 |
| DTS20x17-xxP/Sx | 17 | M25X1.0-6g 0.100R | .128 | .194 | 1.062 | .969 | 1.311 | .822 | .098 |
| DTS20x19-xxP/Sx | 19 | M28X1.0-6g 0.100R | .128 | .194 | 1.156 | 1.062 | 1.437 | .822 | .098 |
| DTS20x21-xxP/Sx | 21 | M31X1.0-6g 0.100R | .128 | .194 | 1.250 | 1.156 | 1.563 | .791 | .126 |
| DTS20x23-xxP/Sx | 23 | M34X1.0-6g 0.100R | .154 | .242 | 1.375 | 1.250 | 1.689 | .791 | .126 |
| DTS20x25-xxP/Sx | 25 | M37X1.0-6g 0.100R | .154 | .242 | 1.500 | 1.375 | 1.811 | .791 | .126 |

NOTES:

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN: EHAB ALAWNEH 070410
 CHK: JAMES FRIEDHOF 070523
 APVD: ALEX RENGLEO 110511

STE TE Connectivity

NAME: DTS SQUARE FLANGE ENVELOPE

PRODUCT SPEC: -
 APPLICATION SPEC: -
 WEIGHT: -

MATERIAL: SEE NOTE 2
 DIMENSIONS: INCH
 TOLERANCES UNLESS OTHERWISE SPECIFIED:
 0 PLC ±
 1 PLC ±0.1
 2 PLC ±0.01
 3 PLC ±0.001
 4 PLC ±0.0001
 ANGLES ±

SIZE: A2
 CAGE CODE: -
 DRAWING NO: C-DTS20xxx-xxP/Sx
 RESTRICTED TO: -

SCALE: 2.500 SHEET 1 OF 1 REV C

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