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LOC

GP

DIST

00

REVISONS

| P  | LTR | DESCRIPTION               | DATE      | DWN | APVD |
|----|-----|---------------------------|-----------|-----|------|
| D2 |     | REVISED PER ECR-23-180111 | 02APR2025 | MK  | GC   |

BEFORE TERMINATION

14.15  
[.557]

AFTER TERMINATION

12.10 MAX  
[.476]

B

C

1.27  
[.050]

POSITION #1 INDICATOR  
(ON FAR SIDE)

1.00  
[.040]

A

2.54  
[.100]

6.05  
[.238]

2.54  
[.100]

D

0.81  
[.032]

0.89  
[.035]

30°

0.81  
[.032]

3

4

CENTER POLARIZER  
(SEE TABLE)

7.62 MIN  
[.300]

A±0.05  
[.002]

2.54±0.05  
[.100±.002]

2.54±0.05  
[.100±.002]

3.81 MIN (FOR CONNECTORS W/O  
[.150] CENTER POLARIZER)

5.08 MIN (FOR CONNECTORS W/  
[.200] CENTER POLARIZER)

0.64±0.03 SQUARE POST  
[.025±.001]

MAX HEIGHT 6.40  
[.252]

POST LAYOUT

ELECTRICAL PROPERTIES

|                          |                                     |
|--------------------------|-------------------------------------|
| CURRENT RATING           | 1 AMP                               |
| INSULATION RESISTANCE    | >1 x 10 <sup>9</sup> OHMS @ 500 VDC |
| DWV                      | >500 VRMS AT SEA LEVEL              |
| ENVIRONMENTAL PROPERTIES |                                     |
| TEMPERATURE RATING       | -55°C TO 125°C                      |

1. 20 POSITION CONNECTOR ASSEMBLY SHOWN.

△ MOLDED PARTS: THERMOPLASTIC, UL94V-0 RATED, COLOR BLUE.  
CONTACTS: BERYLLIUM COPPER.

△ CONTACTS: 0.00076[.000030] MIN GOLD ON MATING AREA,  
0.00254-0.00508[.000100-.000200] TIN OR GOLD FLASH ON TERMINATION END,  
ALL OVER 0.00127[.000050] MIN NICKEL ON ENTIRE CONTACT.

△ POLARIZER FEATURE DOES NOT EXIST ON POSITION #1 END  
FOR 14 POSITION ASSEMBLIES AND SMALLER.

△ POLARIZER FEATURE DOES NOT EXIST ON THIS END FOR  
4 & 6 POSITION ASSEMBLIES.

6. FOR TERMINATION OF 26 OR 28 AWG STRANDED OR SOLID  
PVC INSULATED FLAT RIBBON CABLE. SEE TYCO ELECTRONICS DRAWINGS  
57034 (26 AWG) OR 57040 (28 AWG) FOR DETAILS.

△ STRAIN RELIEF PACKAGED SEPARATELY AND SHIPPED WITH  
ASSEMBLY.

C

14.10±0.20  
[.555±.008]

16.59  
[.653]

14.14  
[.557]

△ STRAIN RELIEF  
(SEE TABLE)

BASE OF CONNECTOR

|          |               |                  |            |              |              |              |                     |                             |             |
|----------|---------------|------------------|------------|--------------|--------------|--------------|---------------------|-----------------------------|-------------|
|          | YES           | YES              | 3.80[.150] | 85.78[3.377] | 80.01[3.150] | 78.74[3.100] | 64                  | 622-6441LF                  | 3-1658527-2 |
|          | NO            | YES              | 3.80[.150] | 85.78[3.377] | 80.01[3.150] | 78.74[3.100] | 64                  | 622-6430LF                  | 3-1658527-1 |
| OBSOLETE | YES           | YES              | 3.80[.150] | 80.70[3.177] | 74.93[2.950] | 73.66[2.900] | 60                  | 622-6041LF                  | 3-1658527-0 |
| OBSOLETE | NO            | YES              | 3.80[.150] | 80.70[3.177] | 74.93[2.950] | 73.66[2.900] | 60                  | 622-6030LF                  | 2-1658527-9 |
| OBSOLETE | NO            | YES              | 3.80[.150] | 75.62[2.977] | 69.85[2.750] | 68.58[2.700] | 56                  | 622-5630LF                  | 1-1658527-8 |
|          | YES           | YES              | 3.80[.150] | 68.00[2.677] | 62.23[2.450] | 60.95[2.400] | 50                  | 622-5041LF                  | 1-1658527-5 |
|          | NO            | YES              | 3.80[.150] | 68.00[2.677] | 62.23[2.450] | 60.95[2.400] | 50                  | 622-5030LF                  | 1-1658527-4 |
| OBSOLETE | NO            | NO               | -          | 60.38[2.377] | 54.61[2.150] | 53.34[2.100] | 44                  | 622-4400LF                  | 1-1658527-7 |
|          | YES           | YES              | 3.80[.150] | 55.30[2.177] | 49.53[1.950] | 48.26[1.900] | 40                  | 622-4041LF                  | 1-1658527-3 |
|          | NO            | YES              | 3.80[.150] | 55.30[2.177] | 49.53[1.950] | 48.26[1.900] | 40                  | 622-4030LF                  | 1-1658527-2 |
|          | YES           | YES              | 3.80[.150] | 47.68[1.877] | 41.91[1.650] | 40.64[1.600] | 34                  | 622-3441LF                  | 2-1658527-8 |
|          | NO            | YES              | 3.80[.150] | 47.68[1.877] | 41.91[1.650] | 40.64[1.600] | 34                  | 622-3430LF                  | 1-1658527-1 |
| OBSOLETE | YES           | YES              | 3.80[.150] | 42.60[1.677] | 36.83[1.450] | 35.56[1.400] | 30                  | 622-3041LF                  | 2-1658527-7 |
|          | NO            | YES              | 3.80[.150] | 42.60[1.677] | 36.83[1.450] | 35.56[1.400] | 30                  | 622-3030LF                  | 2-1658527-6 |
|          | YES           | YES              | 3.80[.150] | 37.52[1.477] | 31.75[1.250] | 30.48[1.200] | 26                  | 622-2641LF                  | 1-1658527-0 |
|          | NO            | YES              | 3.80[.150] | 37.52[1.477] | 31.75[1.250] | 30.48[1.200] | 26                  | 622-2630LF                  | 1658527-9   |
|          | YES           | YES              | 3.80[.150] | 34.98[1.377] | 29.21[1.150] | 27.94[1.100] | 24                  | 622-2441LF                  | 2-1658527-5 |
| OBSOLETE | NO            | YES              | 3.80[.150] | 34.98[1.377] | 29.21[1.150] | 27.94[1.100] | 24                  | 622-2430LF                  | 2-1658527-4 |
|          | YES           | YES              | 3.80[.150] | 29.90[1.177] | 24.13[.950]  | 22.86[.900]  | 20                  | 622-2041LF                  | 1658527-8   |
|          | NO            | YES              | 3.80[.150] | 29.90[1.177] | 24.13[.950]  | 22.86[.900]  | 20                  | 622-2030LF                  | 2-1658527-3 |
|          | YES           | YES              | 3.80[.150] | 24.82[.977]  | 19.05[.750]  | 17.78[.700]  | 16                  | 622-1641LF                  | 1658527-7   |
|          | NO            | YES              | 3.80[.150] | 24.82[.977]  | 19.05[.750]  | 17.78[.700]  | 16                  | 622-1630LF                  | 1658527-6   |
|          | YES           | YES              | 3.80[.150] | 22.28[.877]  | 16.51[.650]  | 15.24[.600]  | 14                  | 622-1441LF                  | 2-1658527-2 |
|          | NO            | YES              | 3.80[.150] | 22.28[.877]  | 16.51[.650]  | 15.24[.600]  | 14                  | 622-1430LF                  | 1658527-5   |
| OBSOLETE | YES           | YES              | 3.80[.150] | 19.74[.777]  | 13.97[.550]  | 12.70[.500]  | 12                  | 622-1241LF                  | 2-1658527-1 |
|          | NO            | YES              | 3.80[.150] | 19.74[.777]  | 13.97[.550]  | 12.70[.500]  | 12                  | 622-1230LF                  | 2-1658527-0 |
|          | YES           | YES              | 3.20[.126] | 17.20[.677]  | 11.43[.450]  | 10.16[.400]  | 10                  | 622-1041LF                  | 1658527-4   |
|          | NO            | YES              | 3.20[.126] | 17.20[.677]  | 11.43[.450]  | 10.16[.400]  | 10                  | 622-1030LF                  | 1658527-3   |
| OBSOLETE | NO            | NO               | -          | 14.66[.577]  | 8.89[.350]   | 7.62[.300]   | 8                   | 622-0800LF                  | 1-1658527-6 |
|          | YES           | YES              | 1.90[.075] | 12.12[.477]  | 6.35[.250]   | 5.08[.200]   | 6                   | 622-0641LF                  | 1-1658527-9 |
|          | NO            | YES              | 1.90[.075] | 12.12[.477]  | 6.35[.250]   | 5.08[.200]   | 6                   | 622-0630LF                  | 1658527-2   |
| OBSOLETE | NO            | YES              | 1.90[.075] | 9.58[.377]   | 3.81[.150]   | 2.54[.100]   | 4                   | 622-0430LF                  | 1658527-1   |
|          | STRAIN RELIEF | CENTER POLARIZER | D          | C            | B            | A            | NUMBER OF POSITIONS | T&B PART NUMBER (REFERENCE) | PART NUMBER |

THIS DRAWING IS A CONTROLLED DOCUMENT.

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CWK 17SEP04

C. ROHDE

APVD M. WALMSLEY 17SEP04

NAME

CONNECTOR ASSEMBLY,  
FEMALE SOCKET TRANSITION,  
622 SERIES

DIMENSIONS:  
INCHES

TOLERANCES UNLESS  
OTHERWISE SPECIFIED:

0. PLC ± -  
1. PLC ± -  
2. PLC ± -  
3. PLC ± 0.13[.005]  
4. PLC ± -  
ANGLES ± -

△

△

MATERIAL

FINISH

WEIGHT

—

SIZE

CAGE CODE

DRAWING NO

RESTRICTED TO

APPROVALS

PRODUCT SPEC

APPLICATION SPEC

WEIGHT

—

SCALE

10:1

SHEET

1

OF

1

REV

D1

4805 (3/11)