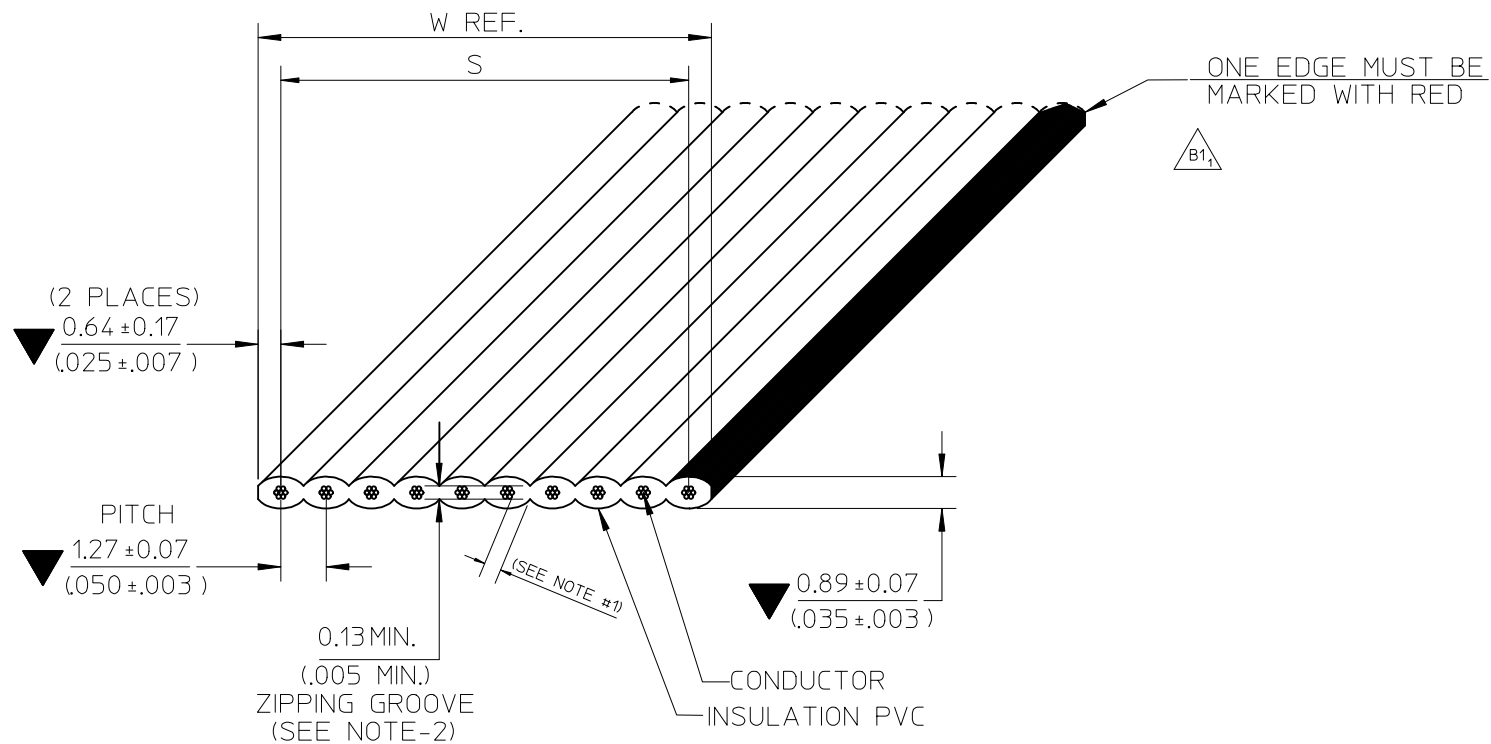


7 6 5 4 3 2 1



- NOTE :**
1. THE CABLE SHALL HAVE A MINIMUM OF 0.178mm. (.007") THICKNESS INSULATION AT ANY POINT
  2. RIP TEST:
    - THE 0.13mm. (.005") ZIPPING GROOVE SHALL BE CAPABLE OF BEING RIPPED BY HAND WITHIN THE RECESS, WITHOUT EXPOSING THE ADJACENT CONDUCTORS
  3. RoHS AND LEAD FREE COMPLIANT
  4. SPECIAL REQUIREMENT: N/A

| PRODUCT APPLICATION                 |                |
|-------------------------------------|----------------|
| <input checked="" type="checkbox"/> | GENERAL USE    |
| <input type="checkbox"/>            | AUTOMOTIVE     |
| <input type="checkbox"/>            | MEDICAL DEVICE |

|  |                               |                                       |       |   |       |   |                      |  |  |  |
|--|-------------------------------|---------------------------------------|-------|---|-------|---|----------------------|--|--|--|
| SEE CHANGE DETAIL.<br>EC NO: THL2011-0054<br>DRWN: CPANSAKHOM 2010/10/05<br>CHKD: PREECHAI 2011/01/25<br>APPR: SVIRAT JAPOL 2011/03/31 | QUALITY SYMBOLS<br>▽=3<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) |       | DIMENSION STYLE<br>MM/IN                                |       | SCALE<br>NTS  | DESIGN UNITS<br>INCH | THIRD ANGLE PROJECTION   |  |  |
|  |                               |                                       |       | mm  | INCH  | DRAWN BY<br>CPANSAKHOM  | DATE<br>2006/07/12   | TITLE<br>FCB ROUND CONDUCTOR<br>1.27MM(.050)CENTERS PVC.<br>28AWG STR TINNED |  |  |
|  |                               | 4 PLACES ± ---                        |       | ± ---   | ± --- | CHECKED BY<br>PREECHAI  | DATE<br>2006/07/12   | MOLEX INCORPORATED   |  |  |
|  |                               | 3 PLACES ± ---                        |       | ± ---   | ± --- | APPROVED BY<br>SVIRAT JAPOL   | DATE<br>2006/07/12   | DOCUMENT NO.<br>SD-6800-001  |  |  |
| 2 PLACES ± ---   |                               | ± ---                                 | ± --- | MATERIAL NO.  |       | SHEET NO.<br>1 OF 3   |                      |  |  |  |
| 1 PLACE ± ---  |                               | ± ---                                 | ± --- | DRAFT WHERE APPLICABLE<br>MUST REMAIN WITHIN DIMENSIONS |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |  |  |  |
| ANGULAR ± ---°   |                               |                                       |       |   |       |   |                      |  |  |  |

|              |           |   |            |
|--------------|-----------|---|------------|
| B1           | E-10-0371 | B1 <sub>1</sub> : REMOVE REELS MFG. IN NOG. | 2011/01/25 |
| B            | E-07-0748 | B <sub>1</sub> : ADD NON-OPERATING TEMP.    | 2007/11/23 |
| A            | N/A       | NEW RELEASE                                 | 2006/07/12 |
| REV. HISTORY | EC NO.    | DETAIL                                      | DATE       |

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### SPECIFICATIONS

#### PHYSICAL

CONDUCTOR SPACING ----- 1.27(.050")  $\phi$  TO  $\phi$   
 WIRE GAUGE ----- 28 AWG(7/36) AWG, STRANDED TINNED  
 INSULATION ----- P.V.C GRAY (LEAD FREE)

#### AGENCY





U.L. STYLE NO. ----- 2651  
 TEMPERATURE RATING ----- -20°C TO 105°C  
 VOLTAGE RATING ----- 300V.MAX.  
 FLAMMABILITY RATING ----- VW-1

#### ELECTRICAL

CONDUCTOR RESISTANCE (D.C.) ----- 68 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ----- 123 OHMS NOM. (GS)  
 100 OHMS NOM. (GSG)  
 CAPACITANCE ----- 9.1 pF/FT. NOM. (GS)  
 17.0 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.  
 INSULATION RESISTANCE ----- 10M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

#### GENERAL

NON-OPERATING TEMPERATURE ----- -20°C TO 105°C  
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 $^{+3}$ <sub>0</sub> FT. (30.48 $^{+0.914}$  M.)/REEL  
 20FT. (6.096M.) MIN. LENGTH

|  |   |  |                |                          |                             |                     |  |  |
|--|---|--|----------------|--------------------------|-----------------------------|---------------------|--|--|
| SEE CHANGE DETAIL.<br>EC NO: THL2011-0054<br>DRWN: CPANSAKHOM 2010/10/05<br>CHKD: PMEECHAI 2011/01/25<br>APPR: SVIRAT JAPOL 2011/03/31 | QUALITY SYMBOLS<br> =<br> = | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |                | DIMENSION STYLE<br>MM/IN |                             | SCALE<br>NTS        | DESIGN UNITS<br>INCH   |  THIRD ANGLE PROJECTION |
|  |   |  | mm             | INCH                     | DRAWN BY<br>CPANSAKHOM      | DATE<br>2006/07/12  | TITLE<br><b>FCB ROUND CONDUCTOR<br/>         1.27MM(.050)CENTERS PVC.<br/>         28AWG STR TINNED</b><br><br> <b>MOLEX INCORPORATED</b> |  |
|  |   | 4 PLACES   | ± ---          | ± ---                    | CHECKED BY<br>PMEECHAI      | DATE<br>2006/07/12  |  |  |
|  |   | 3 PLACES   | ± ---          | ± ---                    | APPROVED BY<br>SVIRAT JAPOL | DATE<br>2006/07/12  |  |  |
|  |   | 2 PLACES   | ± ---          | ± ---                    | MATERIAL NO.                | DOCUMENT NO.        |  |  |
| 1 PLACE  | ± ---   | ± ---  | ANGULAR ± ---° |                          | SD-6800-001                 | SHEET NO.<br>2 OF 3 |  |  |
| B1   | REV   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                | SEE CHART                |                             |                     |  |  |

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ENGINEERING NO.  
 6800-XX-XXXX  
 A B C D  
 A : CABLE 1.27mm. (.050") CENTERS 28AWG STRANDED TINNED  
 B : CONDUCTOR SIZE ( AVAILABILITY 3 THROUGH 50 )  
 C : CABLE LENGTH 100FT. (30.48M.)  
 D : A = INCHES  
 B = FEET

| ENG. NO. | NO OF COND. | DIMENSIONS INCHES (MM)  | DIM. W (REF) | ENGINEERING NO. | ORDER NO.  |
|----------|-------------|-------------------------|--------------|-----------------|------------|
| 6800-3   | 3           | 2.54±0.18 (1.00±.007)   | 3.81(1.50)   | 6800-03-100B    | 82-28-5703 |
| 6800-4   | 4           | 3.81±0.18 (1.50±.007)   | 5.08(2.00)   | 6800-04-100B    | 82-28-5704 |
| 6800-5   | 5           | 5.08±0.18 (2.00±.007)   | 6.35(2.50)   | 6800-05-100B    | 82-28-5705 |
| 6800-6   | 6           | 6.35±0.18 (2.50±.007)   | 7.62(3.00)   | 6800-06-100B    | 82-28-5706 |
| 6800-7   | 7           | 7.62±0.18 (3.00±.007)   | 8.89(3.50)   | 6800-07-100B    | 82-28-5707 |
| 6800-8   | 8           | 8.89±0.18 (3.50±.007)   | 10.16(4.00)  | 6800-08-100B    | 82-28-5708 |
| 6800-9   | 9           | 10.16±0.18 (4.00±.007)  | 11.43(4.50)  | 6800-09-100B    | 82-28-5709 |
| 6800-10  | 10          | 11.43±0.18 (4.50±.007)  | 12.70(5.00)  | 6800-10-100B    | 82-28-5710 |
| 6800-11  | 11          | 12.70±0.18 (5.00±.007)  | 13.97(5.50)  | 6800-11-100B    | 82-28-5711 |
| 6800-12  | 12          | 13.97±0.18 (5.50±.007)  | 15.24(6.00)  | 6800-12-100B    | 82-28-5712 |
| 6800-13  | 13          | 15.24±0.18 (6.00±.007)  | 16.51(6.50)  | 6800-13-100B    | 82-28-5713 |
| 6800-14  | 14          | 16.51±0.18 (6.50±.007)  | 17.78(7.00)  | 6800-14-100B    | 82-28-5714 |
| 6800-15  | 15          | 17.78±0.18 (7.00±.007)  | 19.05(7.50)  | 6800-15-100B    | 82-28-5715 |
| 6800-16  | 16          | 19.05±0.23 (7.50±.009)  | 20.32(8.00)  | 6800-16-100B    | 82-28-5716 |
| 6800-17  | 17          | 20.32±0.23 (8.00±.009)  | 21.59(8.50)  | 6800-17-100B    | 82-28-5717 |
| 6800-18  | 18          | 21.59±0.23 (8.50±.009)  | 22.86(9.00)  | 6800-18-100B    | 82-28-5718 |
| 6800-19  | 19          | 22.86±0.23 (9.00±.009)  | 24.13(9.50)  | 6800-19-100B    | 82-28-5719 |
| 6800-20  | 20          | 24.13±0.23 (9.50±.009)  | 25.40(10.00) | 6800-20-100B    | 82-28-5720 |
| 6800-21  | 21          | 25.40±0.23 (1.000±.009) | 26.67(1.050) | 6800-21-100B    | 82-28-5721 |
| 6800-22  | 22          | 26.67±0.23 (1.050±.009) | 27.94(1.100) | 6800-22-100B    | 82-28-5722 |
| 6800-23  | 23          | 27.94±0.23 (1.100±.009) | 29.21(1.150) | 6800-23-100B    | 82-28-5723 |
| 6800-24  | 24          | 29.21±0.23 (1.150±.009) | 30.48(1.200) | 6800-24-100B    | 82-28-5724 |
| 6800-25  | 25          | 30.48±0.23 (1.200±.009) | 31.75(1.250) | 6800-25-100B    | 82-28-5725 |
| 6800-26  | 26          | 31.75±0.23 (1.250±.009) | 33.02(1.300) | 6800-26-100B    | 82-28-5726 |
| 6800-27  | 27          | 33.02±0.23 (1.300±.009) | 34.29(1.350) | 6800-27-100B    | 82-28-5727 |
| 6800-28  | 28          | 34.29±0.23 (1.350±.009) | 35.56(1.400) | 6800-28-100B    | 82-28-5728 |
| 6800-29  | 29          | 35.56±0.23 (1.400±.009) | 36.83(1.450) | 6800-29-100B    | 82-28-5729 |
| 6800-30  | 30          | 36.83±0.23 (1.450±.009) | 38.10(1.500) | 6800-30-100B    | 82-28-5730 |
| 6800-31  | 31          | 38.10±0.23 (1.500±.009) | 39.37(1.550) | 6800-31-100B    | 82-28-5731 |
| 6800-32  | 32          | 39.37±0.23 (1.550±.009) | 40.64(1.600) | 6800-32-100B    | 82-28-5732 |
| 6800-33  | 33          | 40.64±0.23 (1.600±.009) | 41.91(1.650) | 6800-33-100B    | 82-28-5733 |
| 6800-34  | 34          | 41.91±0.23 (1.650±.009) | 43.18(1.700) | 6800-34-100B    | 82-28-5734 |
| 6800-35  | 35          | 43.18±0.23 (1.700±.009) | 44.45(1.750) | 6800-35-100B    | 82-28-5735 |
| 6800-36  | 36          | 44.45±0.23 (1.750±.009) | 45.72(1.800) | 6800-36-100B    | 82-28-5736 |
| 6800-37  | 37          | 45.72±0.28 (1.800±.011) | 46.99(1.850) | 6800-37-100B    | 82-28-5737 |
| 6800-38  | 38          | 46.99±0.28 (1.850±.011) | 48.26(1.900) | 6800-38-100B    | 82-28-5738 |
| 6800-39  | 39          | 48.26±0.28 (1.900±.011) | 49.53(1.950) | 6800-39-100B    | 82-28-5739 |
| 6800-40  | 40          | 49.53±0.28 (1.950±.011) | 50.80(2.000) | 6800-40-100B    | 82-28-5740 |
| 6800-41  | 41          | 50.80±0.28 (2.000±.011) | 52.07(2.050) | 6800-41-100B    | 82-28-5741 |
| 6800-42  | 42          | 52.07±0.28 (2.050±.011) | 53.34(2.100) | 6800-42-100B    | 82-28-5742 |
| 6800-43  | 43          | 53.34±0.28 (2.100±.011) | 54.61(2.150) | 6800-43-100B    | 82-28-5743 |
| 6800-44  | 44          | 54.61±0.28 (2.150±.011) | 55.88(2.200) | 6800-44-100B    | 82-28-5744 |
| 6800-45  | 45          | 55.88±0.28 (2.200±.011) | 57.15(2.250) | 6800-45-100B    | 82-28-5745 |
| 6800-46  | 46          | 57.15±0.28 (2.250±.011) | 58.42(2.300) | 6800-46-100B    | 82-28-5746 |
| 6800-47  | 47          | 58.42±0.28 (2.300±.011) | 59.69(2.350) | 6800-47-100B    | 82-28-5747 |
| 6800-48  | 48          | 59.69±0.28 (2.350±.011) | 60.96(2.400) | 6800-48-100B    | 82-28-5748 |
| 6800-49  | 49          | 60.96±0.28 (2.400±.011) | 62.23(2.450) | 6800-49-100B    | 82-28-5749 |
| 6800-50  | 50          | 62.23±0.28 (2.450±.011) | 63.50(2.500) | 6800-50-100B    | 82-28-5750 |

|                     |  |   |   |  |  |
|---------------------|--|---|---|--|--|
| QUALITY SYMBOLS<br> | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>4 PLACES ± ---<br>3 PLACES ± ---<br>2 PLACES ± ---<br>1 PLACE ± ---<br>ANGULAR ± ---°<br>DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | DIMENSION STYLE<br><b>MM/IN</b><br>DRAWN BY CPANSAKHOM DATE 2006/07/12<br>CHECKED BY PMEECHAI DATE 2006/07/12<br>APPROVED BY SVIRAT JAPOL DATE 2006/07/12<br>MATERIAL NO. SEE CHART | SCALE<br>NTS<br>DESIGN UNITS<br>INCH<br>THIRD ANGLE PROJECTION  | TITLE<br><b>FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED</b><br><b>MOLEX INCORPORATED</b><br>DOCUMENT NO. SD-6800-001<br>SHEET NO. 3 OF 3 |  |
|                     | SEE CHANGE DETAIL.<br>EC NO: THL2011-0054<br>DRWN:CPANSAKHOM 2010/10/05<br>CHKD:PMEECHAI 2010/10/05<br>APPR:SVIRAT JAPOL 2010/10/05<br><b>B1</b>                                       | DESCRIPTION<br>REV  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |  |