

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0082226004](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch Round Conductor Flat Cable - 22 AWG (7 x 30) Stranded, Topcoat, 4 Circuits, Reel 30.48m (100.0' ) Length

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR61126  
 UL E61522

**General**

Product Family Cable  
 Series [8867](#)  
 Crimp Quality Equipment Yes  
 Geographic Area Asia  
 Product Name Ribbon

**Physical**

Cable Length 30.48m (100.0' )  
 Circuits (Loaded) 4  
 Insulation PVC  
 Packaging Type Reel  
 Pitch - Term. Interface (in) 0.100 In  
 Pitch - Term. Interface (mm) 2.54 mm  
 Temperature Range - Operating -20°C to +105°C  
 Wire Size AWG 22  
 Wire/Cable Type (7x30) Stranded, Topcoat

**Electrical**

Current - Maximum per Contact N/A  
 Voltage - Maximum 300V

**Material Info**

Old Part Number 8867-04-100B

**Reference - Drawing Numbers**

Sales Drawing SD-8867-001



**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free Status**  
 Not Reviewed

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

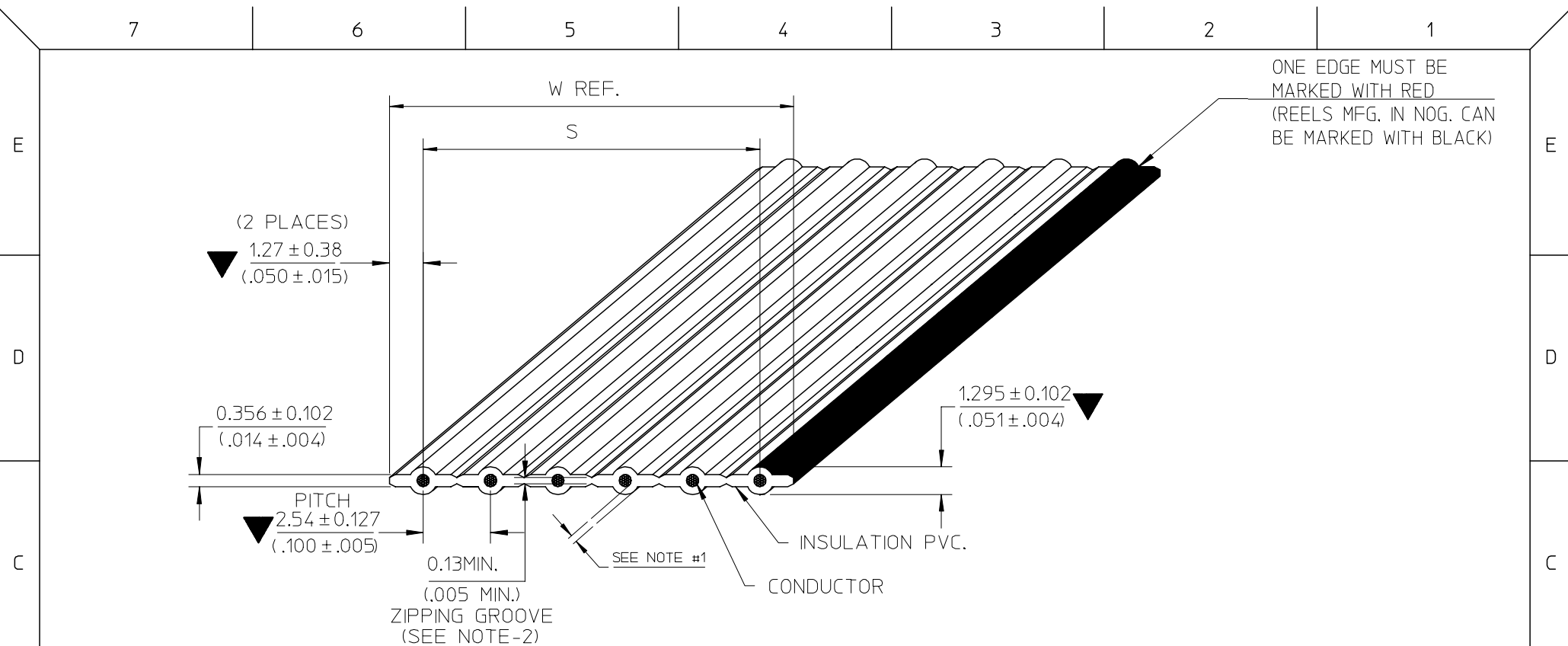
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[8867Series](#)

**Use With**

[70400](#) C-Grid SL™ IDT Connector Assembly.  
[70475](#) SL™ IDT Connector Assembly.  
[7720](#) KK® IDT Double Cantilever Contact



- 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

|              |           |  |          |
|--------------|-----------|--|----------|
| B            | E-07-0748 | B <sub>2</sub> : ADD NON-OPERATING TEMP.<br>B <sub>3</sub> : ADD SOLDERING CONDITION | 07/09/27 |
| A            | N/A       | NEW RELEASE  | 06/07/18 |
| REV. HISTORY | EC NO.    | DETAIL   | DATE     |

SEE CHANGE DETAIL  
EC NO: THL2008-0015  
DRWN: CPANSAKHOM 2007/11/28  
CHKD: DNARINTARA 2007/11/29  
APPR: SVIRATJAPOL 2007/12/04

|                 |             |
|-----------------|-------------|
| QUALITY SYMBOLS | DESCRIPTION |
| ▽=3             |             |
| ▽=0             |             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |       |
|--|-------|
|  | mm    |
| 4 PLACES   | ± --- |
| 3 PLACES   | ± --- |
| 2 PLACES   | ± --- |
| 1 PLACE  | ± --- |
| ANGULAR ± ---°                                       |       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       |

| DIMENSION STYLE |            |
|-----------------|------------|
| MM/IN           |            |
| DRAWN BY        | DATE       |
| CPANSAKHOM      | 2006/07/18 |
| CHECKED BY      | DATE       |
| PMEECHAI        | 2006/07/18 |
| APPROVED BY     | DATE       |
| SVIRATJAPOL     | 2006/07/18 |
| MATERIAL NO.    |            |
| SEE CHART       |            |
| SIZE            |            |
| A/4             |            |

|   |              |                        |
|---|--------------|------------------------|
| SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |
| NTS   | INCH         |                        |
| TITLE   |              |                        |
| FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED  |              |                        |
| MOLEX INCORPORATED  |              |                        |
| DOCUMENT NO.  | SHEET NO.    |                        |
| SD-8867-001   | 1 OF 3       |                        |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |

E

E

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 2.54 (.100")  $\text{C}$  TO  $\text{C}$   
 WIRE GAUGE ----- 22 AWG(7/30) STRANDED TOPCOATED  
 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.) ----- 17 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ----- 128 OHMS NOM. (GS)  
 ----- 104 OHMS NOM. (GSG)  
 CAPACITANCE ----- 7.2 pF/FT. NOM. (GS)  
 ----- 13.4 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.  
 INSULATION RESISTANCE ----- 10 M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

GENERAL

$\triangle B_2$  NON-OPERATING TEMPERATURE ----- -20°C TO 105°C  
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 $^{+3}_0$  FT. (30.48 $^{+0.914}_0$  M.)/REEL  
 20FT. (6.096M.) MIN. LENGTH

$\triangle B_1$  SOLDERING CONDITION

SOLDER TEMPERATURE ----- -260°C. MAX.  
 SOLDERING TIME ----- 3 SECOND, MAX.  
 INSULATION SHRINK ----- 2MM. NOM

D

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C

B

B

A

A

|  |   |  |            |   |       |   |  |  |
|--|---|--|------------|---|-------|---|--|--|
| SEE CHANGE DETAIL<br>EC NO: THL2008-0015<br>DRWN: CPANSAKHOM 2007/11/28<br>CHKD: DNARINTARA 2007/11/29<br>APPR: SVIRATJAPOL 2007/12/04 | QUALITY SYMBOLS                           | GENERAL TOLERANCES (UNLESS SPECIFIED)                |            | DIMENSION STYLE   | SCALE | DESIGN UNITS  | THIRD ANGLE PROJECTION   |  |
|  | $\blacktriangledown =$<br>$\triangle C =$ | mm   | INCH       | MM/IN   | NTS   | INCH  | DRAWN BY DATE<br>CPANSAKHOM 2006/07/18<br>CHECKED BY DATE<br>PMEECHAI 2006/07/18<br>APPROVED BY DATE<br>SVIRATJAPOL 2006/07/18<br>MATERIAL NO. SEE CHART<br>DOCUMENT NO. SD-8867-001<br>SHEET NO. 2 OF 3 |  |
|  |   | 4 PLACES   | $\pm$ ---- | $\pm$ ----  |       |   |  |  |
|  |   | 3 PLACES   | $\pm$ ---- | $\pm$ ----  |       |   |  |  |
|  |   | 2 PLACES   | $\pm$ ---- | $\pm$ ----  |       |   |  |  |
| 1 PLACE  | $\pm$ ----                                | $\pm$ ----   |            |   |       | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED<br>MOLEX INCORPORATED |  |  |
| ANGULAR $\pm$ ----   |   |  |            |   |       |   |  |  |
| REV  | DESCRIPTION                               | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |   |  |  |

7 6 5 4 3 2 1

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| CHART A                 |             |                         |               | SHIPPED ON      |            |
|-------------------------|-------------|-------------------------|---------------|-----------------|------------|
| DIMENSIONS MM. (INCHES) |             |                         |               | 100 FT. REELS   |            |
| ENG. NO.                | NO.OF COND. | DIMENSION S             | DIM. W (REF)  | ENGINEERING NO. | ORDER NO.  |
| 8867-02                 | 2           | 2.54±0.127 (.100±.005)  | 5.08 (.200)   | 8867-02-100B    | 82-22-6002 |
| 8867-03                 | 3           | 5.08±0.20 (.200±.008)   | 7.62 (.300)   | ▲ -03- ▲        | ▲ 03       |
| 8867-04                 | 4           | 7.62±0.30 (.300±.012)   | 10.16 (.400)  | ▲ -04- ▲        | ▲ 04       |
| 8867-05                 | 5           | 10.16±0.33 (.400±.013)  | 12.70 (.500)  | ▲ -05- ▲        | ▲ 05       |
| 8867-06                 | 6           | 12.70±0.33 (.500±.013)  | 15.24 (.600)  | ▲ -06- ▲        | ▲ 06       |
| 8867-07                 | 7           | 15.24±0.33 (.600±.013)  | 17.78 (.700)  | ▲ -07- ▲        | ▲ 07       |
| 8867-08                 | 8           | 17.78±0.33 (.700±.013)  | 20.32 (.800)  | ▲ -08- ▲        | ▲ 08       |
| 8867-09                 | 9           | 20.32±0.33 (.800±.013)  | 22.86 (.900)  | ▲ -09- ▲        | ▲ 09       |
| 8867-10                 | 10          | 22.86±0.33 (.900±.013)  | 25.40 (1.000) | ▲ -10- ▲        | ▲ 10       |
| 8867-11                 | 11          | 25.40±0.33 (1.000±.013) | 27.94 (1.100) | ▲ -11- ▲        | ▲ 11       |
| 8867-12                 | 12          | 27.94±0.33 (1.100±.013) | 30.48 (1.200) | ▲ -12- ▲        | ▲ 12       |
| 8867-13                 | 13          | 30.48±0.33 (1.200±.013) | 33.02 (1.300) | ▲ -13- ▲        | ▲ 13       |
| 8867-14                 | 14          | 33.02±0.33 (1.300±.013) | 35.56 (1.400) | ▲ -14- ▲        | ▲ 14       |
| 8867-15                 | 15          | 35.56±0.33 (1.400±.013) | 38.10 (1.500) | ▲ -15- ▲        | ▲ 15       |
| 8867-16                 | 16          | 38.10±0.33 (1.500±.013) | 40.64 (1.600) | ▲ -16- ▲        | ▲ 16       |
| 8867-17                 | 17          | 40.64±0.33 (1.600±.013) | 43.18 (1.700) | ▲ -17- ▲        | ▲ 17       |
| 8867-18                 | 18          | 43.18±0.33 (1.700±.013) | 45.72 (1.800) | ▲ -18- ▲        | ▲ 18       |
| 8867-19                 | 19          | 45.72±0.33 (1.800±.013) | 48.26 (1.900) | ▲ -19- ▲        | ▲ 19       |
| 8867-20                 | 20          | 48.26±0.33 (1.900±.013) | 50.80 (2.000) | ▼ -20- ▼        | ▼ 20       |

ENGINEERING NO.

8867-XX-XXXX

A B C D

A : CABLE 2.54mm. (.100") CENTERS 22 AWG STRANDED TOPCOATED

B : CONDUCTOR SIZE ( AVAILABILITY 2 THROUGH 20 )

C : CABLE LENGTH 100FT. (30.48M).

D : A = INCHES

B = FEET

| SEE CHANGE DETAIL<br>EC NO: THL2008-0015<br>DRWN: CPANSAKHOM 2007/11/28<br>CHKD: DNARINTARA 2007/11/29<br>APPR: SVIRATJAPOL 2007/12/04 | DESCRIPTION<br>REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)   | DIMENSION STYLE MM/IN | SCALE NTS | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
|--|--------------------|-----------------|---|-----------------------|-----------|-------------------|------------------------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|--|----------|--|------|------------|--|------------|------------|--|------|----------|--|------------|-------------|--|------|-------------|--|------------|--|--|--|--|
|  |                    | ▼ =<br>◻ =      | <table border="1"> <tr><th></th><th>mm</th><th>INCH</th></tr> <tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>3 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>2 PLACES</td><td>± ---</td><td>± ---</td></tr> <tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr> </table> |                       | mm        | INCH              | 4 PLACES               | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± --- | ± --- | 1 PLACE | ± --- | ± --- | <table border="1"> <tr><th colspan="2">DRAWN BY</th><th>DATE</th></tr> <tr><td>CPANSAKHOM</td><td></td><td>2006/07/18</td></tr> <tr><th colspan="2">CHECKED BY</th><th>DATE</th></tr> <tr><td>PMEECHAI</td><td></td><td>2006/07/18</td></tr> <tr><th colspan="2">APPROVED BY</th><th>DATE</th></tr> <tr><td>SVIRATJAPOL</td><td></td><td>2006/07/18</td></tr> </table> | DRAWN BY |  | DATE | CPANSAKHOM |  | 2006/07/18 | CHECKED BY |  | DATE | PMEECHAI |  | 2006/07/18 | APPROVED BY |  | DATE | SVIRATJAPOL |  | 2006/07/18 | TITLE<br>FCB ROUND CONDUCTOR<br>2.5MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED |  |  | MOLEX INCORPORATED<br>DOCUMENT NO. SD-8867-001<br>SHEET NO. 3 OF 3 |
|  |                    |                 |   | mm                    | INCH      |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
|  |                    |                 | 4 PLACES  | ± ---                 | ± ---     |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
|  |                    |                 | 3 PLACES  | ± ---                 | ± ---     |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| 2 PLACES   | ± ---              | ± ---           |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| 1 PLACE  | ± ---              | ± ---           |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| DRAWN BY   |                    | DATE            |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| CPANSAKHOM   |                    | 2006/07/18      |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| CHECKED BY   |                    | DATE            |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| PMEECHAI   |                    | 2006/07/18      |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| APPROVED BY  |                    | DATE            |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| SVIRATJAPOL  |                    | 2006/07/18      |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS   | ANGULAR ± ---°     | SEE CHART       |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
|  |                    | SIZE A 4        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |
|  |                    |                 |   |                       |           |                   |                        |       |       |          |       |       |          |       |       |         |       |       |  |          |  |      |            |  |            |            |  |      |          |  |            |             |  |      |             |  |            |  |  |  |  |