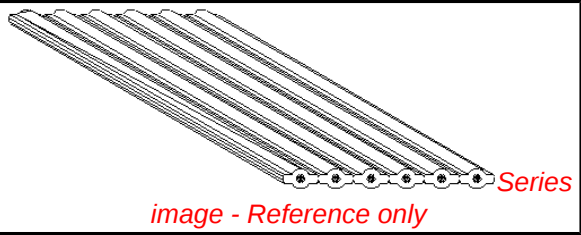


PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0082226009](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch Round Conductor Flat Cable - 22 AWG (7 x 30) Stranded, Topcoat, 9 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                  | <a href="#">8867</a> |
| Crimp Quality Equipment | Yes                  |
| Geographic Area         | Asia                 |
| Product Name            | Ribbon               |

**Physical**

|                               |                          |
|-------------------------------|--------------------------|
| Cable Length                  | 30.48m (100.0' )         |
| Circuits (Loaded)             | 9                        |
| 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 | 8867-09-100B |
|-----------------|--------------|

**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](#)

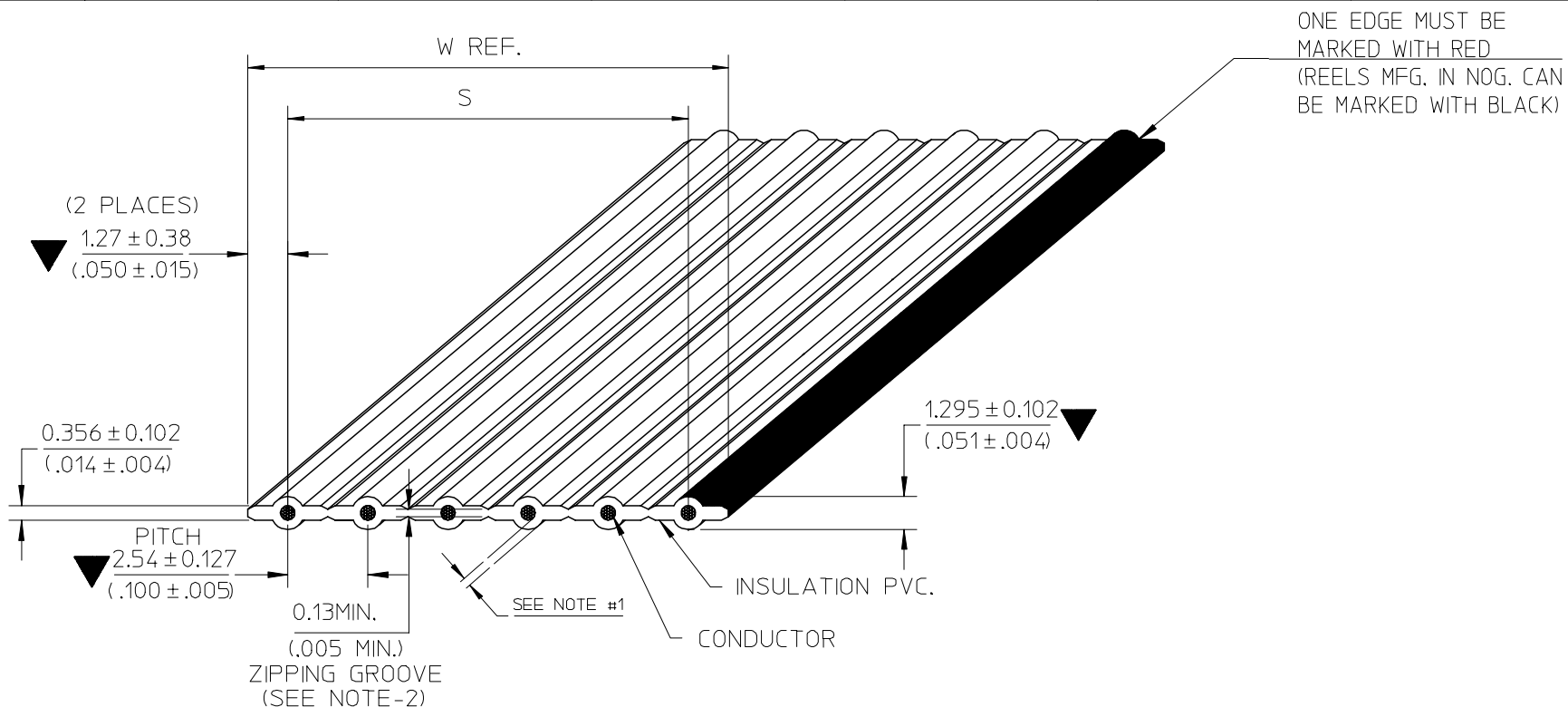
Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**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 |
|-----------------|-------------|
| $\nabla=3$      |             |
| $\nabla=0$      |             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |            |
|------------------------------------------------------|------------|
|                                                      |            |
| mm                                                   | INCH       |
| 4 PLACES                                             | $\pm$ ---- |
| 3 PLACES                                             | $\pm$ ---- |
| 2 PLACES                                             | $\pm$ ---- |
| 1 PLACE                                              | $\pm$ ---- |
| ANGULAR $\pm$ ----                                   |            |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |            |

| DIMENSION STYLE                                                                       |                                                                                                                               | SCALE                                                                                                    | DESIGN UNITS |  THIRD ANGLE<br>PROJECTION |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|
| MM/IN                                                                                 |                                                                                                                               | NTS                                                                                                      | INCH         |                                                                                                                 |
| DRAWN BY                                                                              | DATE                                                                                                                          | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED                      |              |                                                                                                                 |
| CPANSAKHOM                                                                            | 2006/07/18                                                                                                                    |                                                                                                          |              |                                                                                                                 |
| CHECKED BY                                                                            | DATE                                                                                                                          |                                                                                                          |              |                                                                                                                 |
| PMEECHAI                                                                              | 2006/07/18                                                                                                                    |                                                                                                          |              |                                                                                                                 |
| APPROVED BY                                                                           | DATE                                                                                                                          |  MOLEX INCORPORATED |              |                                                                                                                 |
| SVIRATJAPOL                                                                           | 2006/07/18                                                                                                                    |                                                                                                          |              |                                                                                                                 |
| MATERIAL NO.                                                                          |                                                                                                                               | DOCUMENT NO.                                                                                             | SHEET NO.    |                                                                                                                 |
| SEE CHART                                                                             |                                                                                                                               | SD-8867-001                                                                                              | 1 OF 3       |                                                                                                                 |
| SIZE                                                                                  | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                          |              |                                                                                                                 |
|  |                                                                                                                               |                                                                                                          |              |                                                                                                                 |

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# 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

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|                                                                                                                                     |                    |                                                   |                                                            |       |       |                            |                                                                                                                                  |                                                                                                                                       |                      |                                                          |                    |           |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------|------------------------------------------------------------|-------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------|--------------------|-----------|
| 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<br><div>▽ =</div> <div>▽C =</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       |       | DIMENSION STYLE<br>MM/IN   |                                                                                                                                  | SCALE<br>NTS                                                                                                                          | DESIGN UNITS<br>INCH | <div><div></div><div></div></div> THIRD ANGLE PROJECTION |                    |           |
|                                                                                                                                     |                    |                                                   |                                                            | mm    | INCH  | DRAWN BY<br>CPANSAKHOM     | DATE<br>2006/07/18                                                                                                               | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED<br><div><div></div>MOLEX MOLEX INCORPORATED</div> |                      |                                                          |                    |           |
|                                                                                                                                     |                    |                                                   | 4 PLACES                                                   | ± --- | ± --- | CHECKED BY<br>PMEECHAI     | DATE<br>2006/07/18                                                                                                               |                                                                                                                                       |                      |                                                          |                    |           |
|                                                                                                                                     |                    |                                                   | 3 PLACES                                                   | ± --- | ± --- | APPROVED BY<br>SVIRATJAPOL |                                                                                                                                  |                                                                                                                                       |                      |                                                          | DATE<br>2006/07/18 |           |
|                                                                                                                                     |                    |                                                   | 2 PLACES                                                   | ± --- | ± --- | MATERIAL NO.               |                                                                                                                                  |                                                                                                                                       |                      |                                                          | DOCUMENT NO.       | SHEET NO. |
|                                                                                                                                     |                    |                                                   | 1 PLACE                                                    | ± --- | ± --- | SEE CHART                  |                                                                                                                                  |                                                                                                                                       |                      |                                                          | SD-8867-001        | 2 OF 3    |
|                                                                                                                                     |                    |                                                   | ANGULAR ± ---°                                             |       |       |                            |                                                                                                                                  |                                                                                                                                       |                      |                                                          |                    |           |
|                                                                                                                                     |                    |                                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       |                            |                                                                                                                                  |                                                                                                                                       |                      |                                                          |                    |           |
|                                                                                                                                     |                    |                                                   |                                                            |       |       | SIZE<br>A4                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                                                       |                      |                                                          |                    |           |

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| CHART A                 |                |                         |                 | SHIPPED ON         |              |
|-------------------------|----------------|-------------------------|-----------------|--------------------|--------------|
| DIMENSIONS MM. (INCHES) |                |                         |                 | 100 FT. REELS      |              |
| ENG. NO.                | NO.OF<br>COND. | DIMENSION<br>S          | DIM. W<br>(REF) | ENGINEERING<br>NO. | ORDER<br>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 | QUALITY SYMBOLS<br><br>▽ =<br><br>C = | 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>2006/07/18 | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(100)CENTER PVC.<br>22AWG STRANDED TOPCOATED<br><br> MOLEX INCORPORATED |                                                                                                                                  |                                                                                                              |
|                                                                                                                                     |             |                                       | 4 PLACES                              | ± --- | ± ---        | CHECKED BY<br>PMEECHAI     | DATE<br>2006/07/18 |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
|                                                                                                                                     |             |                                       | 3 PLACES                              | ± --- | ± ---        | APPROVED BY<br>SVIRATJAPOL | DATE<br>2006/07/18 |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
|                                                                                                                                     |             |                                       | 2 PLACES                              | ± --- | ± ---        |                            |                    |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
|                                                                                                                                     |             |                                       | 1 PLACE                               | ± --- | ± ---        |                            |                    |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
| ANGULAR ± --- °                                                                                                                     |             |                                       | MATERIAL NO.                          |       | DOCUMENT NO. |                            | SHEET NO.          |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                          |             |                                       | SEE CHART                             |       | SD-8867-001  |                            | 3 OF 3             |                                                                                                                                                                                                    |                                                                                                                                  |                                                                                                              |
| B                                                                                                                                   | REV         | SIZE<br>A 4                           |                                       |       |              |                            |                    |                                                                                                                                                                                                    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                              |