

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

**Part Number:** [0082226010](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch Round Conductor Flat Cable - 22 AWG (7 x 30) Stranded, Topcoat, 10 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) 10  
 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 8867-10-100B

**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](#)

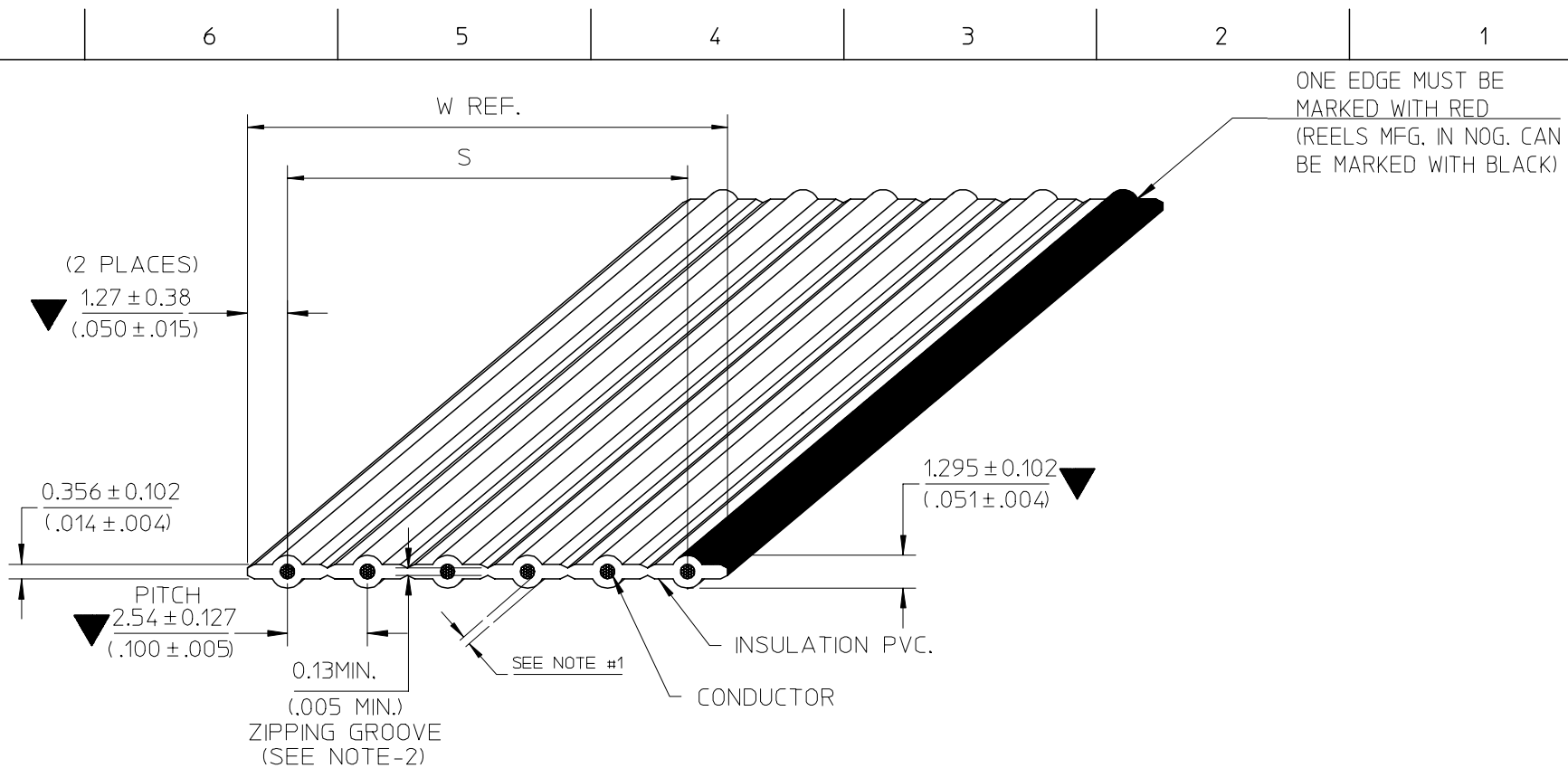
Please visit the [Contact Us](#) section for any non-product compliance questions.

**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 INCH     |
| 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  |              |                        |
| MATERIAL NO.  | DOCUMENT NO. | SHEET NO.              |
| SEE CHART   | 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

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SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- .254 (.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

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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>$\triangle$ = | 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 $\pm$ ----   | $\pm$ ----                              |  |            |                    |   |   |  |  |  |
|  |   | ANGULAR $\pm$ ----                                   |            |                    |   | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED<br>MOLEX INCORPORATED |  |  |  |
|  |   | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |            |                    |   |   |  |  |  |
|  |   |  |            | SIZE $\triangle 4$ | 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 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)                |                      | DIMENSION STYLE      | SCALE   | DESIGN UNITS   | THIRD ANGLE PROJECTION   |   |
|  | =<br>=          | mm   | INCH                 | MM/IN                | NTS   | INCH           | DRAWN BY CPANSAKHOM 2006/07/18<br>CHECKED BY PREECHAI 2006/07/18<br>APPROVED BY SVIRATJAPOL 2006/07/18<br>MATERIAL NO. SEE CHART | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>22AWG STRANDED TOPCOATED<br>MOLEX INCORPORATED |
|  |                 | 4 PLACES ± --- ± ---                                 | 3 PLACES ± --- ± --- | 2 PLACES ± --- ± --- | 1 PLACE ± --- ± ---   | ANGULAR ± ---° |  |   |
|  | REV             | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |                      | SIZE                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                |  |   |
|  | B               |  |                      | A 4                  |   |                |  |   |