

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082226012](#)
Status: **Active**
Description: 2.54mm (.100") Pitch Round Conductor Flat Cable - 22 AWG (7 x 30) Stranded, Topcoat, 12 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) 12
 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 8867-12-100B

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
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

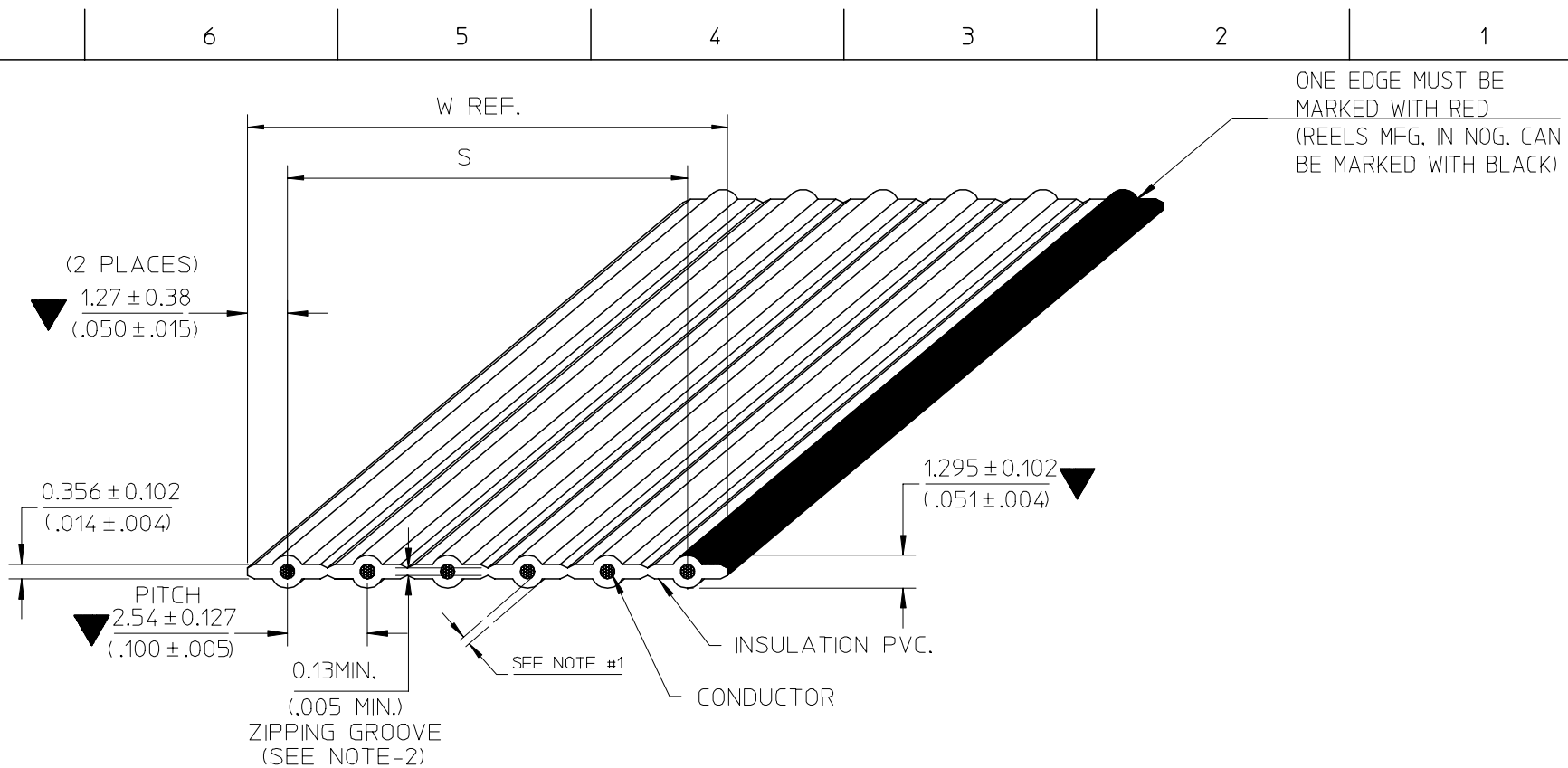
Please visit the [Contact Us](#) section for any non-product compliance questions.

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

| | | | | | | | | | |
|--|-------------------------------|---------------------------------------|------|--|----------------------------|----------------------|---|-----------------------------|---------------------|
| SEE CHANGE DETAIL EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04 | QUALITY SYMBOLS ▽=3 ◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE MM/IN | SCALE NTS | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | | |
| | | | mm | INCH | DRAWN BY CPANSAKHOM | DATE 2006/07/18 | TITLE FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 22AWG STRANDED TOPCOATED | | |
| | | 4 PLACES | ±--- | ±--- | CHECKED BY PMEECHAI | DATE 2006/07/18 | MOLEX INCORPORATED | | |
| | | 3 PLACES | ±--- | ±--- | APPROVED BY SVIRATJAPOL | DATE 2006/07/18 | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-8867-001 | SHEET NO. 1 OF 3 |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | ANGULAR ±---° | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | |

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

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Rev. E 2006/04/15

7 6 5 4 3 2 1

E

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SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 2.54 (.100") C TO 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 EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | $\blacktriangledown =$ $\triangle C =$ | mm | INCH | MM/IN | NTS | INCH | | |
| | | 4 PLACES \pm ---- | \pm ---- | DRAWN BY | DATE | TITLE | | |
| | | 3 PLACES \pm ---- | \pm ---- | CPANSAKHOM | 2006/07/18 | FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 22AWG STRANDED TOPCOATED | | |
| | | 2 PLACES \pm ---- | \pm ---- | CHECKED BY | DATE | MOLEX INCORPORATED | | |
| | 1 PLACE \pm ---- | \pm ---- | PMEECHA I | 2006/07/18 | | | | |
| | ANGULAR \pm ---- | \pm ---- | APPROVED BY | DATE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. | |
| | | | SVIRATJAPOL | 2006/07/18 | SEE CHART | SD-8867-001 | 2 OF 3 | |
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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

| | | | | | | | | |
|--|---|---------------------------------------|-------|-----------------|---|--------------------------|------------------------|--|
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| | | 3 PLACES | ± --- | ± --- | CPANSAKHOM | 2006/07/18 | FCB ROUND CONDUCTOR | |
| | 2 PLACES | ± --- | ± --- | CHECKED BY | DATE | 2.54MM(.100)CENTER PVC. | | |
| | 1 PLACE | ± --- | ± --- | PMEECHAI | 2006/07/18 | 22AWG STRANDED TOPCOATED | | |
| | ANGULAR ± ---° | | | APPROVED BY | DATE | MOLEX MOLEX INCORPORATED | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | SVIRATJAPOL | 2006/07/18 | DOCUMENT NO. | SHEET NO. | |
| | | | | MATERIAL NO. | | SD-8867-001 | 3 OF 3 | |
| | | | | SEE CHART | | | | |
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