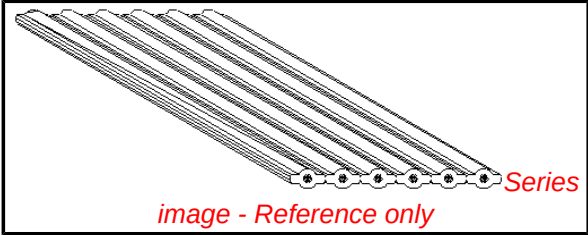


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**Part Number:** 0082266831  
**Status:** Active  
**Description:** 1.27mm (.050") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34) Stranded Tinned, 31 Circuits, Reel 30.48m (100.0' ) Length



**Documents:**  
Drawing (PDF)      RoHS Certificate of Compliance (PDF)

**Agency Certification**

|     |         |
|-----|---------|
| CSA | LR61126 |
| UL  | E61522  |

**General**

|                         |        |
|-------------------------|--------|
| Product Family          | Cable  |
| Series                  | 8863   |
| Crimp Quality Equipment | Yes    |
| Geographic Area         | Asia   |
| Product Name            | Ribbon |

**Physical**

|                               |                         |
|-------------------------------|-------------------------|
| Cable Length                  | 30.48m (100.0' )        |
| Circuits (Loaded)             | 31                      |
| Circuits (maximum)            | 31                      |
| Insulation                    | PVC                     |
| Packaging Type                | Reel                    |
| Pitch - Term. Interface (in)  | 0.050 In                |
| Pitch - Term. Interface (mm)  | 1.27 mm                 |
| Temperature Range - Operating | -20°C to +105°C         |
| Wire Size AWG                 | 26                      |
| Wire/Cable Type               | (7x34) Stranded, Tinned |

**Electrical**

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

**Material Info**

|                 |              |
|-----------------|--------------|
| Old Part Number | 8863-31-100B |
|-----------------|--------------|

**Reference - Drawing Numbers**

|               |             |
|---------------|-------------|
| Sales Drawing | SD-8863-001 |
|---------------|-------------|

| EU RoHS                    | China RoHS |
|----------------------------|------------|
| <b>Compliance Status</b>   |            |
| Not Reviewed               |            |
| <b>REACH SVHC</b>          |            |
| Not Reviewed               |            |
| <b>Halogen-Free Status</b> |            |
| Not Reviewed               |            |

**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](#)

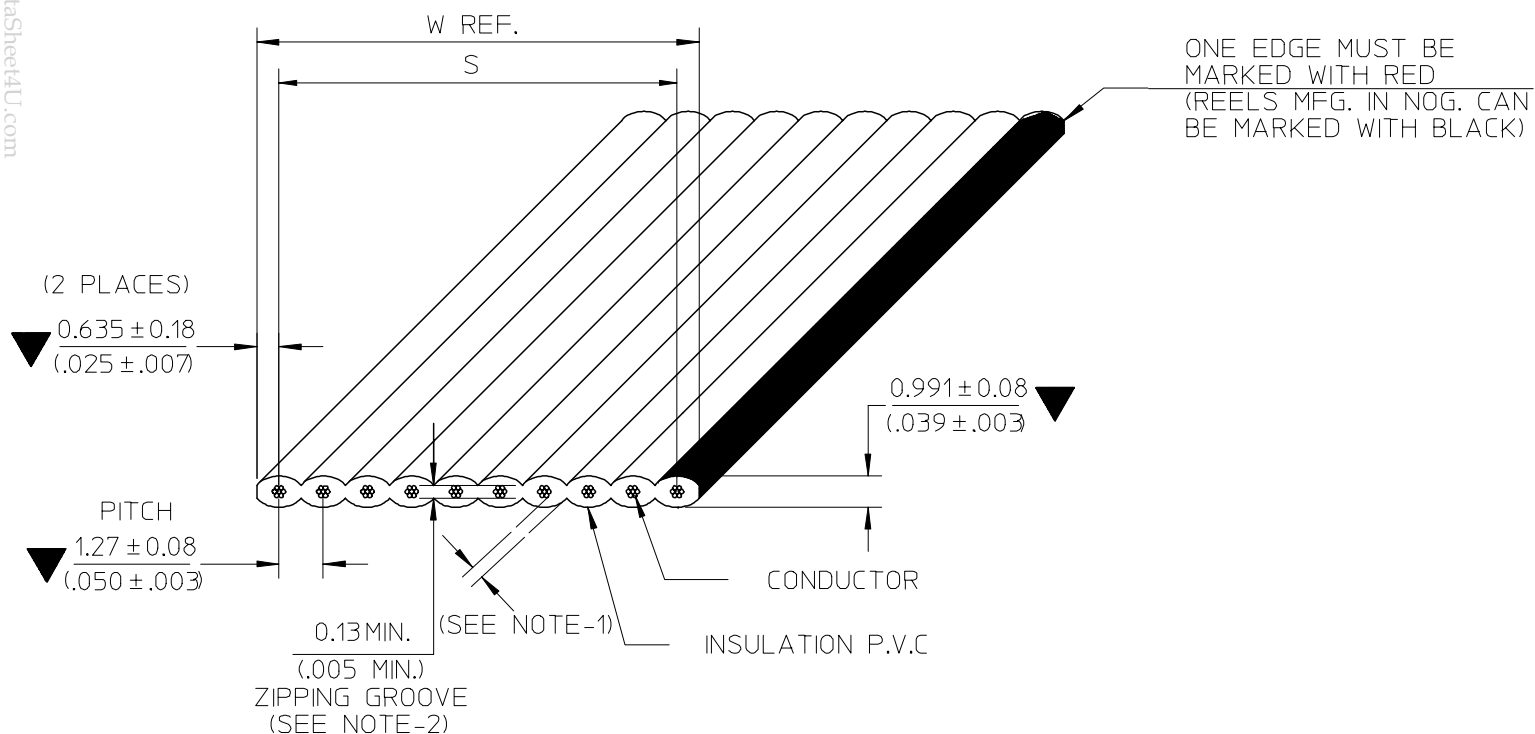
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**  
8863Series

**Use With**  
[70121](#) MX-50™ Slimline Ribbon Cable.  
[90584](#) Picoflex® PF-50 IDT Receptacle

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- 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<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<br><div>▽=3</div> <div>▽=0</div> | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       |       | DIMENSION STYLE<br>MM/IN   |                    | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>INCH | THIRD ANGLE<br>PROJECTION |  |                     |  |  |
|                                                                                                                                      |                                                  |                                                            | mm    | INCH  | DRAWN BY<br>CPANSAKHOM     | DATE<br>2006/07/18 | TITLE<br>FCB ROUND CONDUCTOR<br>1.27MM(.050)CENTER PVC.<br>26AWG STRANDED TINNED                                                 |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | 4 PLACES                                                   | ± --- | ± --- | CHECKED BY<br>PMEECHAI     | DATE<br>2006/07/18 |                                                                                                                                  |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | 3 PLACES                                                   | ± --- | ± --- | APPROVED BY<br>SVIRATJAPOL |                    | DATE<br>2006/07/18                                                                                                               |                      | molex MOLEX INCORPORATED  |  |                     |  |  |
|                                                                                                                                      |                                                  | 2 PLACES                                                   | ± --- | ± --- |                            |                    |                                                                                                                                  |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | 1 PLACE                                                    | ± --- | ± --- | ANGULAR ± ---°             |                    | MATERIAL NO.                                                                                                                     |                      | DOCUMENT NO.              |  | SHEET NO.<br>1 OF 3 |  |  |
|                                                                                                                                      |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       |                            |                    |                                                                                                                                  |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | 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 |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       | SEE CHART                  |                    | SD-8863-001                                                                                                                      |                      |                           |  |                     |  |  |
|                                                                                                                                      |                                                  | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       | SD-8863-001                |                    | SD-8863-001                                                                                                                      |                      |                           |  |                     |  |  |

SPECIFICATIONSPHYSICAL

CONDUCTOR SPACING \_\_\_\_\_ 1.27 (.050")  $\bar{C}$  TO  $\bar{C}$   
WIRE GAUGE \_\_\_\_\_ 26 AWG(7/34) 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.) \_\_\_\_\_ 43 m OHMS/FT. MAX.  
CHARACTERISTIC IMPEDANCE \_\_\_\_\_ 115 OHMS NOM. (GS)  
93 OHMS NOM. (GSG)  
CAPACITANCE \_\_\_\_\_ 8.9 pF/FT. NOM. (GS)  
18.0 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 $^{+3}_{-0}$  FT. (30.48 $^{+0.914}_{-0}$  M.)/REEL  
20FT. (6.096M.) MIN. LENGTH

|                                                                                                                                     |             |                                                   |                                                            |       |                                                                                                                                  |                        |              |                      |                        |                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------|------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|----------------------|------------------------|----------------------------------------------------------------------------------|--|
| 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><div>▽ =</div> <div>▽C =</div> | 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>1.27MM(.050)CENTER PVC.<br>26AWG STRANDED TINNED |  |
|                                                                                                                                     |             |                                                   | 4 PLACES                                                   | ± --- | ± ---                                                                                                                            | CHECKED BY<br>PMEECHAI |              | DATE<br>2006/07/18   |                        |                                                                                  |  |
|                                                                                                                                     |             |                                                   | 3 PLACES                                                   | ± --- | ± ---                                                                                                                            | APPROVED BY            |              | DATE                 |                        | molex MOLEX INCORPORATED                                                         |  |
|                                                                                                                                     |             |                                                   | 2 PLACES                                                   | ± --- | ± ---                                                                                                                            | SVIRATJAPOL            |              | 2006/07/18           |                        |                                                                                  |  |
|                                                                                                                                     |             |                                                   | 1 PLACE                                                    | ± --- | ± ---                                                                                                                            | MATERIAL NO.           |              | DOCUMENT NO.         |                        |                                                                                  |  |
|                                                                                                                                     |             |                                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |                                                                                                                                  | SEE CHART              |              | SD-8863-001          |                        |                                                                                  |  |
|                                                                                                                                     |             |                                                   | SIZE<br>A 4                                                |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |              |                      |                        |                                                                                  |  |

E

D

C

B

A

ENGINEERING NO.

8863-XX-XXXX

A B C D

A : CABLE 1.27mm. (.050") CENTERS 26AWG STRANDED TINNED  
B : CONDUCTOR SIZE ( AVAILABILITY 3 THROUGH 50 )  
C : CABLE LENGTH 100FT. (30.48M)  
D : A = INCHES  
B = FEET

## DIMENSIONS MM. (INCHES)

SHIPPED ON 100FT. REELS

| ENG. NO. | NO.OF COND. | DIMENSION S | DIM. W (REF) | ENGINEERING NO. | ORDER NO. |
|----------|-------------|-------------|--------------|-----------------|-----------|
|----------|-------------|-------------|--------------|-----------------|-----------|

|         |    |                        |              |              |            |
|---------|----|------------------------|--------------|--------------|------------|
| 8863-3  | 3  | 2.54±0.18 (100±.007)   | 3.81 (150)   | 8863-03-100B | 82-26-6803 |
| 8863-4  | 4  | 3.81±0.18 (150±.007)   | 5.08 (200)   | ▲-04-▲       | ▲04        |
| 8863-5  | 5  | 5.08±0.18 (200±.007)   | 6.35 (250)   | -05-         | 05         |
| 8863-6  | 6  | 6.35±0.18 (250±.007)   | 7.62 (300)   | -06-         | 06         |
| 8863-7  | 7  | 7.62±0.18 (300±.007)   | 8.89 (350)   | -07-         | 07         |
| 8863-8  | 8  | 8.89±0.18 (350±.007)   | 10.16 (400)  | -08-         | 08         |
| 8863-9  | 9  | 10.16±0.18 (400±.007)  | 11.43 (450)  | -09-         | 09         |
| 8863-10 | 10 | 11.43±0.18 (450±.007)  | 12.70 (500)  | -10-         | 10         |
| 8863-11 | 11 | 12.70±0.18 (500±.007)  | 13.97 (550)  | -11-         | 11         |
| 8863-12 | 12 | 13.97±0.18 (550±.007)  | 15.24 (600)  | -12-         | 12         |
| 8863-13 | 13 | 15.24±0.18 (600±.007)  | 16.51 (650)  | -13-         | 13         |
| 8863-14 | 14 | 16.51±0.18 (650±.007)  | 17.78 (700)  | -14-         | 14         |
| 8863-15 | 15 | 17.78±0.18 (700±.007)  | 19.05 (750)  | -15-         | 15         |
| 8863-16 | 16 | 19.05±0.23 (750±.009)  | 20.32 (800)  | -16-         | 16         |
| 8863-17 | 17 | 20.32±0.23 (800±.009)  | 21.59 (850)  | -17-         | 17         |
| 8863-18 | 18 | 21.59±0.23 (850±.009)  | 22.86 (900)  | -18-         | 18         |
| 8863-19 | 19 | 22.86±0.23 (900±.009)  | 24.13 (950)  | -19-         | 19         |
| 8863-20 | 20 | 24.13±0.23 (950±.009)  | 25.40 (1000) | -20-         | 20         |
| 8863-21 | 21 | 25.40±0.23 (1000±.009) | 26.67 (1050) | -21-         | 21         |
| 8863-22 | 22 | 26.67±0.23 (1050±.009) | 27.94 (1100) | -22-         | 22         |
| 8863-23 | 23 | 27.94±0.23 (1100±.009) | 29.21 (1150) | -23-         | 23         |
| 8863-24 | 24 | 29.21±0.23 (1150±.009) | 30.48 (1200) | -24-         | 24         |
| 8863-25 | 25 | 30.48±0.23 (1200±.009) | 31.75 (1250) | -25-         | 25         |
| 8863-26 | 26 | 31.75±0.23 (1250±.009) | 33.02 (1300) | -26-         | 26         |
| 8863-27 | 27 | 33.02±0.23 (1300±.009) | 34.29 (1350) | -27-         | 27         |
| 8863-28 | 28 | 34.29±0.23 (1350±.009) | 35.56 (1400) | -28-         | 28         |
| 8863-29 | 29 | 35.56±0.23 (1400±.009) | 36.83 (1450) | -29-         | 29         |
| 8863-30 | 30 | 36.83±0.23 (1450±.009) | 38.10 (1500) | -30-         | 30         |
| 8863-31 | 31 | 38.10±0.23 (1500±.009) | 39.37 (1550) | -31-         | 31         |
| 8863-32 | 32 | 39.37±0.23 (1550±.009) | 40.64 (1600) | -32-         | 32         |
| 8863-33 | 33 | 40.64±0.23 (1600±.009) | 41.91 (1650) | -33-         | 33         |
| 8863-34 | 34 | 41.91±0.23 (1650±.009) | 43.18 (1700) | -34-         | 34         |
| 8863-35 | 35 | 43.18±0.23 (1700±.009) | 44.45 (1750) | -35-         | 35         |
| 8863-36 | 36 | 44.45±0.23 (1750±.009) | 45.72 (1800) | -36-         | 36         |
| 8863-37 | 37 | 45.72±0.28 (1800±.011) | 46.99 (1850) | -37-         | 37         |
| 8863-38 | 38 | 46.99±0.28 (1850±.011) | 48.26 (1900) | -38-         | 38         |
| 8863-39 | 39 | 48.26±0.28 (1900±.011) | 49.53 (1950) | -39-         | 39         |
| 8863-40 | 40 | 49.53±0.28 (1950±.011) | 50.80 (2000) | -40-         | 40         |
| 8863-41 | 41 | 50.80±0.28 (2000±.011) | 52.07 (2050) | -41-         | 41         |
| 8863-42 | 42 | 52.07±0.28 (2050±.011) | 53.34 (2100) | -42-         | 42         |
| 8863-43 | 43 | 53.34±0.28 (2100±.011) | 54.61 (2150) | -43-         | 43         |
| 8863-44 | 44 | 54.61±0.28 (2150±.011) | 55.88 (2200) | -44-         | 44         |
| 8863-45 | 45 | 55.88±0.28 (2200±.011) | 57.15 (2250) | -45-         | 45         |
| 8863-46 | 46 | 57.15±0.28 (2250±.011) | 58.42 (2300) | -46-         | 46         |
| 8863-47 | 47 | 58.42±0.28 (2300±.011) | 59.69 (2350) | -47-         | 47         |
| 8863-48 | 48 | 59.69±0.28 (2350±.011) | 60.96 (2400) | -48-         | 48         |
| 8863-49 | 49 | 60.96±0.28 (2400±.011) | 62.23 (2450) | ▼-49-▼       | ▼49        |
| 8863-50 | 50 | 62.23±0.28 (2450±.011) | 63.50 (2500) | 8863-50-100B | 82-26-6850 |

THIRD ANGLE PROJECTION

DESIGN UNITS  
INCHSCALE  
NTSFCB ROUND CONDUCTOR  
1.27MM(.050)CENTER PVC.  
26AWG STRANDED TINNED

MOLEX INCORPORATED

DOCUMENT NO.

SD-8863-001

SHEET NO.

3 OF 3

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

GENERAL TOLERANCES  
(UNLESS SPECIFIED)

|                 | mm     | INCH    |
|-----------------|--------|---------|
| 4 PLACES        | ± .005 | ± .0004 |
| 3 PLACES        | ± .005 | ± .0004 |
| 2 PLACES        | ± .005 | ± .0004 |
| 1 PLACE         | ± .005 | ± .0004 |
| ANGULAR ± .005° |        |         |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

QUALITY SYMBOLS

▲ =  
▽ =

DESCRIPTION

REV

10/11/2002 TOLATIRAS:SVIRATJAPOL  
6/21/11/2002 VARANIN:VARANIN  
8/21/11/2002 MOHAKSAPAK:MOHAKSAPAK  
5/00-80027HL:ON CE  
DETAILS ENGINEERING

6

5

4

3

2

1