

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: **0082285704**
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 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 **6800**
 Crimp Quality Equipment Yes
 Geographic Area Asia
 Product Name Ribbon

Physical

Cable Length 30.48m (100.0')
 Circuits (Loaded) 4
 Circuits (maximum) 4
 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 28
 Wire/Cable Type (7x36) Stranded, Tinned

Electrical

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

Material Info

Old Part Number 6800-04-100B

Reference - Drawing Numbers

Sales Drawing SD-6800-001



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](#)

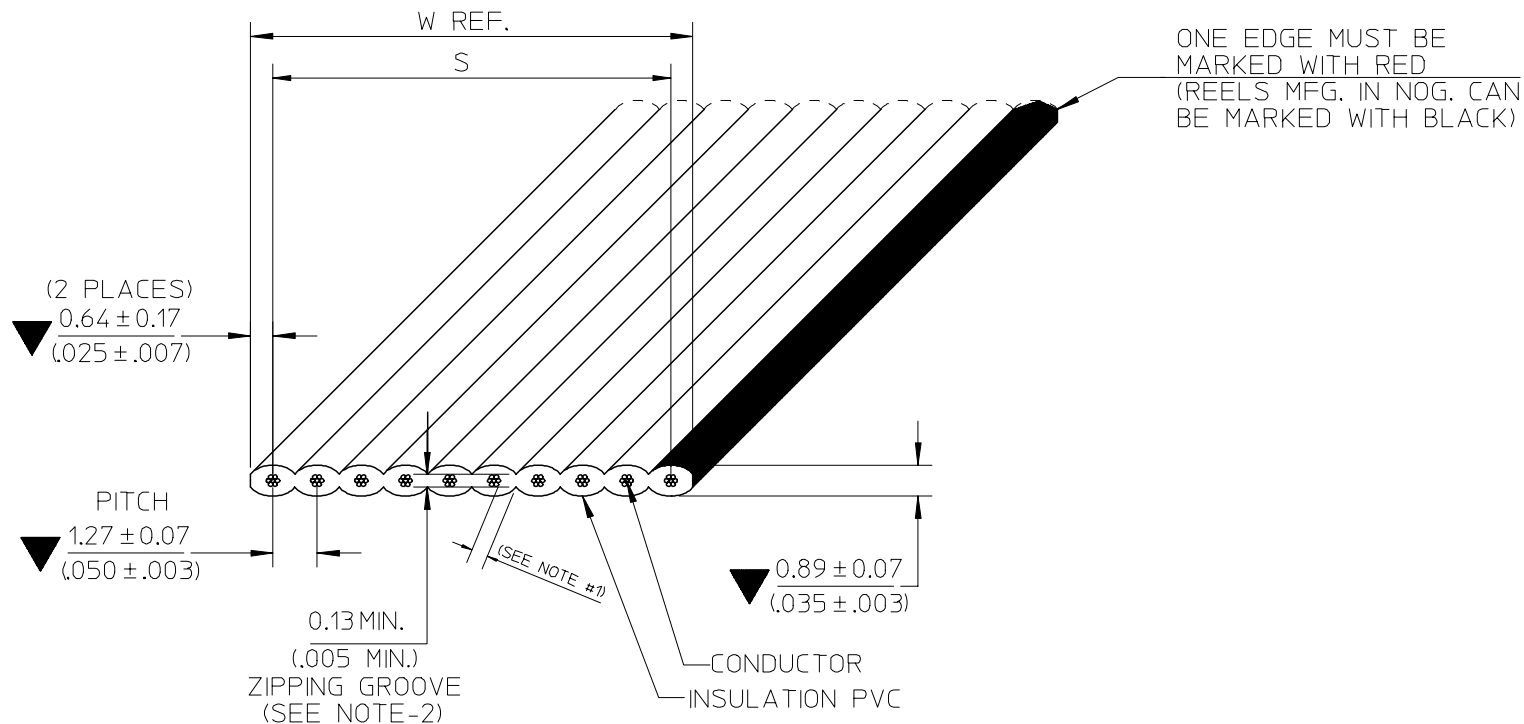
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

6800Series

Use With

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



- 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 ₁ : ADD NON-OPERATING TEMP. | 07/11/23 |
| A | N/A | NEW RELEASE | 06/07/12 |
| 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 | 2006/07/12 |
| CHECKED BY | DATE |
| PMEECHAI | 2006/07/12 |
| APPROVED BY | DATE |
| SVIRATJAPOL | 2006/07/12 |
| MATERIAL NO. | |
| SEE CHART | |
| SIZE | |
| A 4 | |

| | | |
|---|-------------------|------------------------|
| SCALE NTS | DESIGN UNITS INCH | THIRD ANGLE PROJECTION |
| TITLE | | |
| FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED | | |
| MOLEX INCORPORATED | | |
| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
| SEE CHART | SD-6800-001 | 1 OF 3 |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

E

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 1.27(.050") \bar{C} TO \bar{C}
 WIRE GAUGE ----- 28 AWG(7/36) AWG, 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.) ----- 68 m OHMS/FT. MAX.
 CHARACTERISTIC IMPEDANCE ----- 123 OHMS NOM. (GS)
 100 OHMS NOM. (GSG)
 CAPACITANCE ----- 9.1 pF/FT. NOM. (GS)
 17.0 pF/FT. NOM. (GSG)
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.
 INSULATION RESISTANCE ----- 10M OHMS (10FT. SAMPLE)
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

GENERAL

Δ NON-OPERATING TEMPERATURE ----- -20°C TO 105°C
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100⁺³₀ FT. (30.48^{+0.914}₀ M.)/REEL
 20FT. (6.096M.) MIN. LENGTH

D

C

B

A

| | | | | | | | | | | | | | |
|---|--------------------|--|-------|---------------------------------------|-------------|---|------------|--------------|---|------------------------|--|--|--|
| SEE CHANGE DETAIL. EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04 | DESCRIPTION REV | QUALITY SYMBOLS | | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | | |
| | | | | | | MM/IN | | NTS | INCH | | | | |
| | | \blacktriangledown = \triangleleft = | | mm | INCH | DRAWN BY | DATE | TITLE | | | | | |
| | | | | 4 PLACES | ± --- | ± --- | CPANSAKHOM | 2006/07/12 | FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED | | | | |
| | | | | 3 PLACES | ± --- | ± --- | CHECKED BY | DATE | MOLEX INCORPORATED | | | | |
| | | 2 PLACES | ± --- | ± --- | PMEECHAI | 2006/07/12 | | | | | | | |
| | | 1 PLACE | ± --- | ± --- | APPROVED BY | DATE | | | | | | | |
| | | ANGULAR ± ---° | | SVIRATJAPOL | | 2006/07/12 | | | | | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | MATERIAL NO. | | DOCUMENT NO. | | SHEET NO. | | | |
| | | | | | | SEE CHART | | SD-6800-001 | | 2 OF 3 | | | |
| | | | | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | | | | |

E D C B A

1

ENGINEERING NO.

6800-XX-XXXX

A B C D

A : CABLE 1.27mm. (.050") CENTERS 28AWG STRANDED TINNED
 B : CONDUCTOR SIZE (AVAILABLE 3 THROUGH 50)
 C : CABLE LENGTH 100FT. (30.48M.)
 D : A = INCHES
 B = FEET

1

2

3

3

4

4

5

5

6

6

7

| ENG. NO. | NO.OF COND. | DIMENSIONS INCHES (MM) | | DIM. W (REF) | ENGINEERING NO. | ORDER NO. |
|----------|-------------|-------------------------|--------------|--------------|-----------------|-----------|
| | | S | S | | | |
| 6800-3 | 3 | 2.54±0.18 (1.00±.007) | 3.81(1.50) | 6800-03-100B | 82-28-5703 | |
| 6800-4 | 4 | 3.81±0.18 (1.50±.007) | 5.08(2.00) | 6800-04-100B | 82-28-5704 | |
| 6800-5 | 5 | 5.08±0.18 (2.00±.007) | 6.35(2.50) | 6800-05-100B | 82-28-5705 | |
| 6800-6 | 6 | 6.35±0.18 (2.50±.007) | 7.62(3.00) | 6800-06-100B | 82-28-5706 | |
| 6800-7 | 7 | 7.62±0.18 (3.00±.007) | 8.89(3.50) | 6800-07-100B | 82-28-5707 | |
| 6800-8 | 8 | 8.89±0.18 (3.50±.007) | 10.16(4.00) | 6800-08-100B | 82-28-5708 | |
| 6800-9 | 9 | 10.16±0.18 (4.00±.007) | 11.43(4.50) | 6800-09-100B | 82-28-5709 | |
| 6800-10 | 10 | 11.43±0.18 (4.50±.007) | 12.70(5.00) | 6800-10-100B | 82-28-5710 | |
| 6800-11 | 11 | 12.70±0.18 (5.00±.007) | 13.97(5.50) | 6800-11-100B | 82-28-5711 | |
| 6800-12 | 12 | 13.97±0.18 (5.50±.007) | 15.24(6.00) | 6800-12-100B | 82-28-5712 | |
| 6800-13 | 13 | 15.24±0.18 (6.00±.007) | 16.51(6.50) | 6800-13-100B | 82-28-5713 | |
| 6800-14 | 14 | 16.51±0.18 (6.50±.007) | 17.78(7.00) | 6800-14-100B | 82-28-5714 | |
| 6800-15 | 15 | 17.78±0.18 (7.00±.007) | 19.05(7.50) | 6800-15-100B | 82-28-5715 | |
| 6800-16 | 16 | 19.05±0.23 (7.50±.009) | 20.32(8.00) | 6800-16-100B | 82-28-5716 | |
| 6800-17 | 17 | 20.32±0.23 (8.00±.009) | 21.59(8.50) | 6800-17-100B | 82-28-5717 | |
| 6800-18 | 18 | 21.59±0.23 (8.50±.009) | 22.86(9.00) | 6800-18-100B | 82-28-5718 | |
| 6800-19 | 19 | 22.86±0.23 (9.00±.009) | 24.13(9.50) | 6800-19-100B | 82-28-5719 | |
| 6800-20 | 20 | 24.13±0.23 (9.50±.009) | 25.40(10.00) | 6800-20-100B | 82-28-5720 | |
| 6800-21 | 21 | 25.40±0.23 (1.000±.009) | 26.67(10.50) | 6800-21-100B | 82-28-5721 | |
| 6800-22 | 22 | 26.67±0.23 (1.050±.009) | 27.94(11.00) | 6800-22-100B | 82-28-5722 | |
| 6800-23 | 23 | 27.94±0.23 (1.100±.009) | 29.21(11.50) | 6800-23-100B | 82-28-5723 | |
| 6800-24 | 24 | 29.21±0.23 (1.150±.009) | 30.48(12.00) | 6800-24-100B | 82-28-5724 | |
| 6800-25 | 25 | 30.48±0.23 (1.200±.009) | 31.75(12.50) | 6800-25-100B | 82-28-5725 | |
| 6800-26 | 26 | 31.75±0.23 (1.250±.009) | 33.02(13.00) | 6800-26-100B | 82-28-5726 | |
| 6800-27 | 27 | 33.02±0.23 (1.300±.009) | 34.29(13.50) | 6800-27-100B | 82-28-5727 | |
| 6800-28 | 28 | 34.29±0.23 (1.350±.009) | 35.56(14.00) | 6800-28-100B | 82-28-5728 | |
| 6800-29 | 29 | 35.56±0.23 (1.400±.009) | 36.83(14.50) | 6800-29-100B | 82-28-5729 | |
| 6800-30 | 30 | 36.83±0.23 (1.450±.009) | 38.10(15.00) | 6800-30-100B | 82-28-5730 | |
| 6800-31 | 31 | 38.10±0.23 (1.500±.009) | 39.37(15.50) | 6800-31-100B | 82-28-5731 | |
| 6800-32 | 32 | 39.37±0.23 (1.550±.009) | 40.64(16.00) | 6800-32-100B | 82-28-5732 | |
| 6800-33 | 33 | 40.64±0.23 (1.600±.009) | 41.91(16.50) | 6800-33-100B | 82-28-5733 | |
| 6800-34 | 34 | 41.91±0.23 (1.650±.009) | 43.18(17.00) | 6800-34-100B | 82-28-5734 | |
| 6800-35 | 35 | 43.18±0.23 (1.700±.009) | 44.45(17.50) | 6800-35-100B | 82-28-5735 | |
| 6800-36 | 36 | 44.45±0.23 (1.750±.009) | 45.72(18.00) | 6800-36-100B | 82-28-5736 | |
| 6800-37 | 37 | 45.72±0.28 (1.800±.011) | 46.99(18.50) | 6800-37-100B | 82-28-5737 | |
| 6800-38 | 38 | 46.99±0.28 (1.850±.011) | 48.26(19.00) | 6800-38-100B | 82-28-5738 | |
| 6800-39 | 39 | 48.26±0.28 (1.900±.011) | 49.53(19.50) | 6800-39-100B | 82-28-5739 | |
| 6800-40 | 40 | 49.53±0.28 (1.950±.011) | 50.80(20.00) | 6800-40-100B | 82-28-5740 | |
| 6800-41 | 41 | 50.80±0.28 (2.00±.011) | 52.07(20.50) | 6800-41-100B | 82-28-5741 | |
| 6800-42 | 42 | 52.07±0.28 (2.050±.011) | 53.34(21.00) | 6800-42-100B | 82-28-5742 | |
| 6800-43 | 43 | 53.34±0.28 (2.100±.011) | 54.61(21.50) | 6800-43-100B | 82-28-5743 | |
| 6800-44 | 44 | 54.61±0.28 (2.150±.011) | 55.88(22.00) | 6800-44-100B | 82-28-5744 | |
| 6800-45 | 45 | 55.88±0.28 (2.200±.011) | 57.15(22.50) | 6800-45-100B | 82-28-5745 | |
| 6800-46 | 46 | 57.15±0.28 (2.250±.011) | 58.42(23.00) | 6800-46-100B | 82-28-5746 | |
| 6800-47 | 47 | 58.42±0.28 (2.300±.011) | 59.69(23.50) | 6800-47-100B | 82-28-5747 | |
| 6800-48 | 48 | 59.69±0.28 (2.350±.011) | 60.96(24.00) | 6800-48-100B | 82-28-5748 | |
| 6800-49 | 49 | 60.96±0.28 (2.400±.011) | 62.23(24.50) | 6800-49-100B | 82-28-5749 | |
| 6800-50 | 50 | 62.23±0.28 (2.450±.011) | 63.50(25.00) | 6800-50-100B | 82-28-5750 | |

THIRD ANGLE PROJECTION

DESIGN UNITS INCH

SCALE NTS

DIMENSION STYLE MM/IN

GENERAL TOLERANCES (UNLESS SPECIFIED)

QUALITY SYMBOLS

TITLE
 FCB ROUND CONDUCTOR
 1.27MM(.050)CENTERS PVC.
 28AWG STR TINNED

MOLEX INCORPORATED

DOCUMENT NO. SD-6800-001 SHEET NO. 3 OF 3

DRAWN BY CPANSAKHOM DATE 2006/07/12
 CHECKED BY PREECHAI DATE 2006/07/12
 APPROVED BY SVIRATJAPOL DATE 2006/07/12

MATERIAL NO. SEE CHART

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| | | |
|----------------|--------|---------|
| | mm | INCH |
| 4 PLACES | + .004 | + .0015 |
| 3 PLACES | + .003 | + .0010 |
| 2 PLACES | + .002 | + .0005 |
| 1 PLACE | + .001 | + .0002 |
| ANGULAR ±.005° | | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

| REV | DESCRIPTION |
|-----|---|
| B | DRWNG:CPANSAKHOM 2007/11/11/29 CHKD:JWANTARA 2007/11/11/29 APPR:SVIRATJAPOL 2007/11/11/29 |
| A | SEE CHANGE DETAIL. 515 000-0002-THL:ON EC |