

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

**Part Number:** [0082285734](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 34 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) 34  
 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 6800-34-100B

**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](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

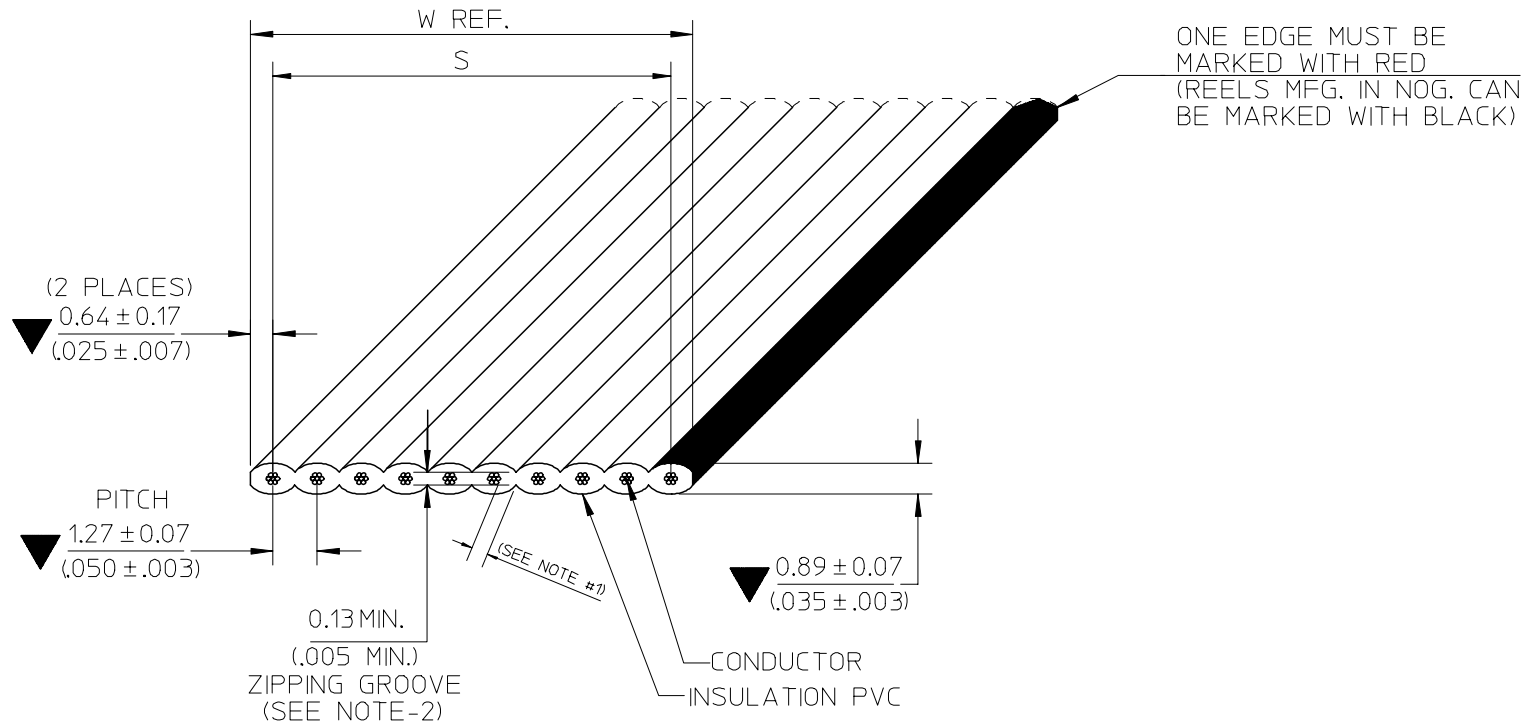
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[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 <sub>1</sub> : 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	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	INCH	
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

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

$\Delta$  NON-OPERATING TEMPERATURE ----- -20°C TO 105°C  
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100<sup>+3</sup><sub>0</sub> FT. (30.48<sup>+0.914</sup><sub>0</sub> 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				
		▽ = ▽ =		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 MOLEX INCORPORATED				
		2 PLACES	± ---	± ---	PMEECHAI	2006/07/12	SD-6800-001						
		1 PLACE	± ---	± ---	APPROVED BY	DATE	SHEET NO.						
		ANGULAR ± ---°		SVIRATJAPOL	2006/07/12	2 OF 3							
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.					
						SEE CHART		SD-6800-001					
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
						A 4							

E D C B A

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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

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ENG. NO.	NO.OF COND.	DIMENSIONS INCHES (MM)		SHIPPED ON 100FT. REELS
		DIMENSION S	DIM. W (REF)	
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 (10.00±.009)	26.67(10.50)	6800-21-100B 82-28-5721
6800-22	22	26.67±0.23 (10.50±.009)	27.94(11.00)	6800-22-100B 82-28-5722
6800-23	23	27.94±0.23 (11.00±.009)	29.21(11.50)	6800-23-100B 82-28-5723
6800-24	24	29.21±0.23 (11.50±.009)	30.48(12.00)	6800-24-100B 82-28-5724
6800-25	25	30.48±0.23 (12.00±.009)	31.75(12.50)	6800-25-100B 82-28-5725
6800-26	26	31.75±0.23 (12.50±.009)	33.02(13.00)	6800-26-100B 82-28-5726
6800-27	27	33.02±0.23 (13.00±.009)	34.29(13.50)	6800-27-100B 82-28-5727
6800-28	28	34.29±0.23 (13.50±.009)	35.56(14.00)	6800-28-100B 82-28-5728
6800-29	29	35.56±0.23 (14.00±.009)	36.83(14.50)	6800-29-100B 82-28-5729
6800-30	30	36.83±0.23 (14.50±.009)	38.10(15.00)	6800-30-100B 82-28-5730
6800-31	31	38.10±0.23 (15.00±.009)	39.37(15.50)	6800-31-100B 82-28-5731
6800-32	32	39.37±0.23 (15.50±.009)	40.64(16.00)	6800-32-100B 82-28-5732
6800-33	33	40.64±0.23 (16.00±.009)	41.91(16.50)	6800-33-100B 82-28-5733
6800-34	34	41.91±0.23 (16.50±.009)	43.18(17.00)	6800-34-100B 82-28-5734
6800-35	35	43.18±0.23 (17.00±.009)	44.45(17.50)	6800-35-100B 82-28-5735
6800-36	36	44.45±0.23 (17.50±.009)	45.72(18.00)	6800-36-100B 82-28-5736
6800-37	37	45.72±0.28 (18.00±.011)	46.99(18.50)	6800-37-100B 82-28-5737
6800-38	38	46.99±0.28 (18.50±.011)	48.26(19.00)	6800-38-100B 82-28-5738
6800-39	39	48.26±0.28 (19.00±.011)	49.53(19.50)	6800-39-100B 82-28-5739
6800-40	40	49.53±0.28 (19.50±.011)	50.80(20.00)	6800-40-100B 82-28-5740
6800-41	41	50.80±0.28 (20.00±.011)	52.07(20.50)	6800-41-100B 82-28-5741
6800-42	42	52.07±0.28 (20.50±.011)	53.34(21.00)	6800-42-100B 82-28-5742
6800-43	43	53.34±0.28 (21.00±.011)	54.61(21.50)	6800-43-100B 82-28-5743
6800-44	44	54.61±0.28 (21.50±.011)	55.88(22.00)	6800-44-100B 82-28-5744
6800-45	45	55.88±0.28 (22.00±.011)	57.15(22.50)	6800-45-100B 82-28-5745
6800-46	46	57.15±0.28 (22.50±.011)	58.42(23.00)	6800-46-100B 82-28-5746
6800-47	47	58.42±0.28 (23.00±.011)	59.69(23.50)	6800-47-100B 82-28-5747
6800-48	48	59.69±0.28 (23.50±.011)	60.96(24.00)	6800-48-100B 82-28-5748
6800-49	49	60.96±0.28 (24.00±.011)	62.23(24.50)	6800-49-100B 82-28-5749
6800-50	50	62.23±0.28 (24.50±.011)	63.50(25.00)	6800-50-100B 82-28-5750

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QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	mm	INCH	MM/IN	NTS	INCH	
SEE CHANGE DETAIL. 15 00-008-002 HL TH: ON EC DRWN:CPANSAKHOM 2007/11/11/04 CHKD:DNARINTARA 2007/11/11/29 APPR:SVIRATJAPOL 2007/12/12/04	4 PLACES	± ---	± ---	DRAWN BY	DATE	FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED
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	2 PLACES	± ---	± ---	CHECKED BY	DATE	MOLEX INCORPORATED SD-6800-001
	1 PLACE	± ---	± ---	PMEECHA I	2006/07/12	
	ANGULAR ±---°		APPROVED BY	DATE	SHEET NO.	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SVIRATJAPOL	2006/07/12	3 OF 3	
			MATERIAL NO.	SEE CHART		
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