

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

**Part Number:** [0082285747](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 47 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) 47  
 Circuits (maximum) 47  
 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**

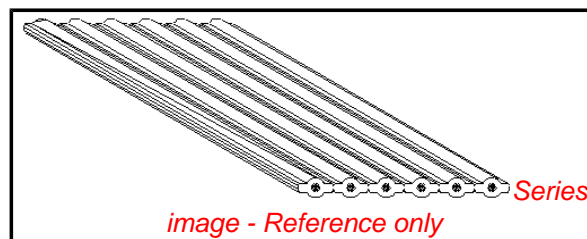
Current - Maximum per Contact N/A  
 Voltage - Maximum 300V

**Material Info**

Old Part Number 6800-47-100B

**Reference - Drawing Numbers**

Sales Drawing SD-6800-001



**EU RoHS**

**Compliance Status**

**Not Reviewed**

**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

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

$\triangle$  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

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 MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		=	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				
			2 PLACES ± ---	± ---	PMEECHAI	2006/07/12	MOLEX INCORPORATED			
	1 PLACE ± ---	± ---	APPROVED BY	DATE						
	ANGULAR ± ---°		SVIRATJAPOL	2006/07/12	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		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 ( AVAILABILITY 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 (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

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

APPROVED BY SVIRATJAPOL 2006/07/12

MATERIAL NO. SEE CHART DOCUMENT NO. SD-6800-001 SHEET NO. 3 OF 3

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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 2007/11/11/04 CHKD:JWARINTARA 2007/11/11/29 APPR:SVIRATJAPOL 2007/11/12/04
A	SEE CHANGE DETAIL. 515 000-008-002-THL:ON EC