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Part Number: [0082285705](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 5 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) 5
 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 6800-05-100B

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	

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

E

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

\triangle 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

D

C

C

B

B

A

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 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 ±----	±----	PMEECHA I	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			
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

E D C B A

F D C B A

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

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

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	APPR:SVIRATJAPOL 2007/11/12/04
A	CHKD:JWANTARA 2007/11/11/29
	DRWN:CPANSAKHOM 2007/11/11/29
	SEE CHANGE DETAIL. 05-000-002-THL:ON EC