

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082285745](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 45 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) 45
 Circuits (maximum) 45
 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 6800-45-100B

Reference - Drawing Numbers

Sales Drawing SD-6800-001



EU RoHS **China RoHS**

Compliance Status

Not Reviewed

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

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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

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	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

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

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 INCORPORATED					
	2 PLACES ± ---	± ---	PMEECHAI	2006/07/12	MATERIAL NO.							
	1 PLACE ± ---	± ---	APPROVED BY	DATE	DOCUMENT NO.							
	ANGULAR ± ---°		SVIRATJAPOL	2006/07/12	SHEET NO.							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART			SD-6800-001			2 OF 3			
	SIZE Δ THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

F 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

4

5

6

ENG. NO.	NO.OF COND.	DIMENSIONS INCHES (MM)	DIM. W (REF)	ENGINEERING NO.	ORDER NO.
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 DATE
 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.