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Part Number: [0082285750](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 50 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)	50
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

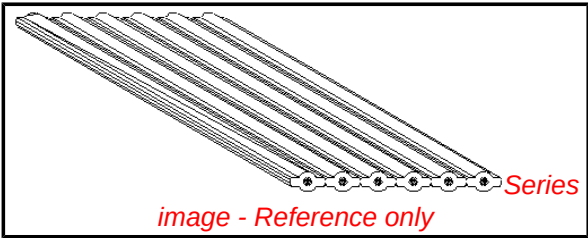
Current - Maximum per Contact	N/A
Voltage - Maximum	300V

Material Info

Old Part Number	6800-50-100B
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Reference - Drawing Numbers

Sales Drawing	SD-6800-001
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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](#)

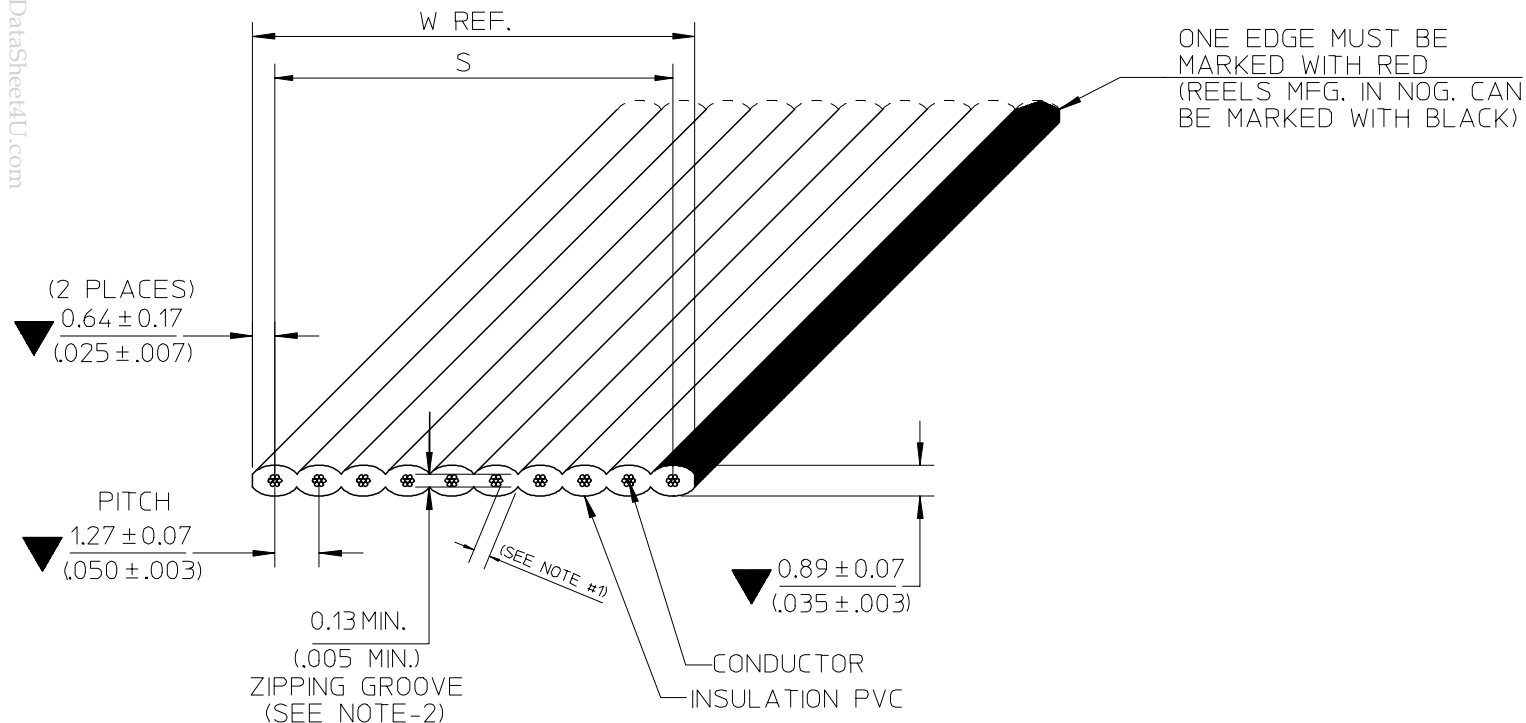
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[6800Series](#)

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

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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

SEE CHANGE DETAIL. EC NO: THL2008-0015 DRWN:CPANSAKHOM 2007/11/28 CHKD:DNARINTARA 2007/11/29 APPR:SVIRATJAPOL 2007/12/04	QUALITY SYMBOLS ▽=3 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY CPANSAKHOM		DATE 2006/07/12	TITLE FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED				
		4 PLACES	± ---	± ---	CHECKED BY PMEECHAI		DATE 2006/07/12					
		3 PLACES	± ---	± ---	APPROVED BY SVIRATJAPOL		DATE 2006/07/12	molex MOLEX INCORPORATED				
		2 PLACES	± ---	± ---								
		1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.				
		ANGULAR ± ---°			SEE CHART		SD-6800-001		1 OF 3			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

E-07-0748	B ₁ : ADD NON-OPERATING TEMP.	07/11/23
N/A	NEW RELEASE	06/07/12
EC NO.	DETAIL	DATE

SPECIFICATIONSPHYSICAL

CONDUCTOR SPACING _____ 1.27(.050") ϕ TO ϕ
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

 NON-OPERATING TEMPERATURE _____ -20°C TO 105°C
FAULTS AND/OR SPLICES _____ 1/REEL MAX. 100⁺³₋₀ 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	QUALITY SYMBOLS ▽ = C =	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY CPANSAKHOM		DATE 2006/07/12	TITLE FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED		
			4 PLACES	± ---	± ---	CHECKED BY PMEECHAI		DATE 2006/07/12			
			3 PLACES	± ---	± ---	APPROVED BY SVIRATJAPOL		DATE 2006/07/12	molex MOLEX INCORPORATED		
			2 PLACES	± ---	± ---						
			1 PLACE	± ---	± ---						
			ANGULAR ± ---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-6800-001		2 OF 3		
					SIZE A 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

E

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 (AVAILABILITY 3 THROUGH 50)

C : CABLE LENGTH 100FT. (30.48M.)

D : A = INCHES

B = FEET

DIMENSIONS INCHES (MM)				SHIPPED ON 100FT. REELS	ORDER NO.
ENG. NO.	NO.OF COND.	DIMENSION S	DIM. W (REF)		
6800-3	3	2.54±0.18 (1.00±.007)	3.81(.150)	6800-03-100B	82-28-5703
6800-4	4	3.81±0.18 (.150±.007)	5.08(.200)	6800-04-100B	82-28-5704
6800-5	5	5.08±0.18 (.200±.007)	6.35(.250)	6800-05-100B	82-28-5705
6800-6	6	6.35±0.18 (.250±.007)	7.62(.300)	6800-06-100B	82-28-5706
6800-7	7	7.62±0.18 (.300±.007)	8.89(.350)	6800-07-100B	82-28-5707
6800-8	8	8.89±0.18 (.350±.007)	10.16(.400)	6800-08-100B	82-28-5708
6800-9	9	10.16±0.18 (.400±.007)	11.43(.450)	6800-09-100B	82-28-5709
6800-10	10	11.43±0.18 (.450±.007)	12.70(.500)	6800-10-100B	82-28-5710
6800-11	11	12.70±0.18 (.500±.007)	13.97(.550)	6800-11-100B	82-28-5711
6800-12	12	13.97±0.18 (.550±.007)	15.24(.600)	6800-12-100B	82-28-5712
6800-13	13	15.24±0.18 (.600±.007)	16.51(.650)	6800-13-100B	82-28-5713
6800-14	14	16.51±0.18 (.650±.007)	17.78(.700)	6800-14-100B	82-28-5714
6800-15	15	17.78±0.18 (.700±.007)	19.05(.750)	6800-15-100B	82-28-5715
6800-16	16	19.05±0.23 (.750±.009)	20.32(.800)	6800-16-100B	82-28-5716
6800-17	17	20.32±0.23 (.800±.009)	21.59(.850)	6800-17-100B	82-28-5717
6800-18	18	21.59±0.23 (.850±.009)	22.86(.900)	6800-18-100B	82-28-5718
6800-19	19	22.86±0.23 (.900±.009)	24.13(.950)	6800-19-100B	82-28-5719
6800-20	20	24.13±0.23 (.950±.009)	25.40(1.000)	6800-20-100B	82-28-5720
6800-21	21	25.40±0.23 (1.000±.009)	26.67(1.050)	6800-21-100B	82-28-5721
6800-22	22	26.67±0.23 (1.050±.009)	27.94(1.100)	6800-22-100B	82-28-5722
6800-23	23	27.94±0.23 (1.100±.009)	29.21(1.150)	6800-23-100B	82-28-5723
6800-24	24	29.21±0.23 (1.150±.009)	30.48(1.200)	6800-24-100B	82-28-5724
6800-25	25	30.48±0.23 (1.200±.009)	31.75(1.250)	6800-25-100B	82-28-5725
6800-26	26	31.75±0.23 (1.250±.009)	33.02(1.300)	6800-26-100B	82-28-5726
6800-27	27	33.02±0.23 (1.300±.009)	34.29(1.350)	6800-27-100B	82-28-5727
6800-28	28	34.29±0.23 (1.350±.009)	35.56(1.400)	6800-28-100B	82-28-5728
6800-29	29	35.56±0.23 (1.400±.009)	36.83(1.450)	6800-29-100B	82-28-5729
6800-30	30	36.83±0.23 (1.450±.009)	38.10(1.500)	6800-30-100B	82-28-5730
6800-31	31	38.10±0.23 (1.500±.009)	39.37(1.550)	6800-31-100B	82-28-5731
6800-32	32	39.37±0.23 (1.550±.009)	40.64(1.600)	6800-32-100B	82-28-5732
6800-33	33	40.64±0.23 (1.600±.009)	41.91(1.650)	6800-33-100B	82-28-5733
6800-34	34	41.91±0.23 (1.650±.009)	43.18(1.700)	6800-34-100B	82-28-5734
6800-35	35	43.18±0.23 (1.700±.009)	44.45(1.750)	6800-35-100B	82-28-5735
6800-36	36	44.45±0.23 (1.750±.009)	45.72(1.800)	6800-36-100B	82-28-5736
6800-37	37	45.72±0.28 (1.800±.011)	46.99(1.850)	6800-37-100B	82-28-5737
6800-38	38	46.99±0.28 (1.850±.011)	48.26(1.900)	6800-38-100B	82-28-5738
6800-39	39	48.26±0.28 (1.900±.011)	49.53(1.950)	6800-39-100B	82-28-5739
6800-40	40	49.53±0.28 (1.950±.011)	50.80(2.000)	6800-40-100B	82-28-5740
6800-41	41	50.80±0.28 (2.000±.011)	52.07(2.050)	6800-41-100B	82-28-5741
6800-42	42	52.07±0.28 (2.050±.011)	53.34(2.100)	6800-42-100B	82-28-5742
6800-43	43	53.34±0.28 (2.100±.011)	54.61(2.150)	6800-43-100B	82-28-5743
6800-44	44	54.61±0.28 (2.150±.011)	55.88(2.200)	6800-44-100B	82-28-5744
6800-45	45	55.88±0.28 (2.200±.011)	57.15(2.250)	6800-45-100B	82-28-5745
6800-46	46	57.15±0.28 (2.250±.011)	58.42(2.300)	6800-46-100B	82-28-5746
6800-47	47	58.42±0.28 (2.300±.011)	59.69(2.350)	6800-47-100B	82-28-5747
6800-48	48	59.69±0.28 (2.350±.011)	60.96(2.400)	6800-48-100B	82-28-5748
6800-49	49	60.96±0.28 (2.400±.011)	62.23(2.450)	6800-49-100B	82-28-5749
6800-50	50	62.23±0.28 (2.450±.011)	63.50(2.500)	6800-50-100B	82-28-5750

THIRD ANGLE PROJECTION

DESIGN UNITS
INCHSCALE
NTSDIMENSION STYLE
MM/INFCB ROUND CONDUCTOR
1.27MM(.050)CENTERS PVC.
28AWG STR TINNED

MOLEX INCORPORATED

SD-6800-001

SHEET NO.
3 OF 3DRAWN BY
CPANSAKHOM
DATE
2006/07/12
CHECKED BY
PMEETCHAI
DATE
2006/07/12
APPROVED BY
SVIRATJAPOL
DATE
2006/07/12MATERIAL NO.
SEE CHART

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

GENERAL TOLERANCES
(UNLESS SPECIFIED)mm INCH
4 PLACES ± --- ± ---
3 PLACES ± --- ± ---
2 PLACES ± --- ± ---
1 PLACE ± --- ± ---
ANGULAR ±---°DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

QUALITY SYMBOLS

= =

DESCRIPTION

REV
DRAWN:CPANSAKHOM 2007/07/12
CHKD:DNARINTARA 2007/11/11
APPR:SVIRATJAPOL 2007/12/12

SEE CHANGE DETAIL.

500-008-002 THT: ON CE

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