

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082285716](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded Tinned, 16 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)	16
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

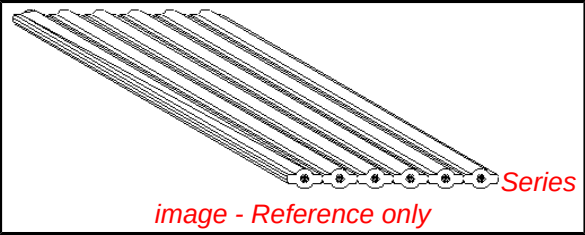
Current - Maximum per Contact	N/A
Voltage - Maximum	300V

Material Info

Old Part Number	6800-16-100B
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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?

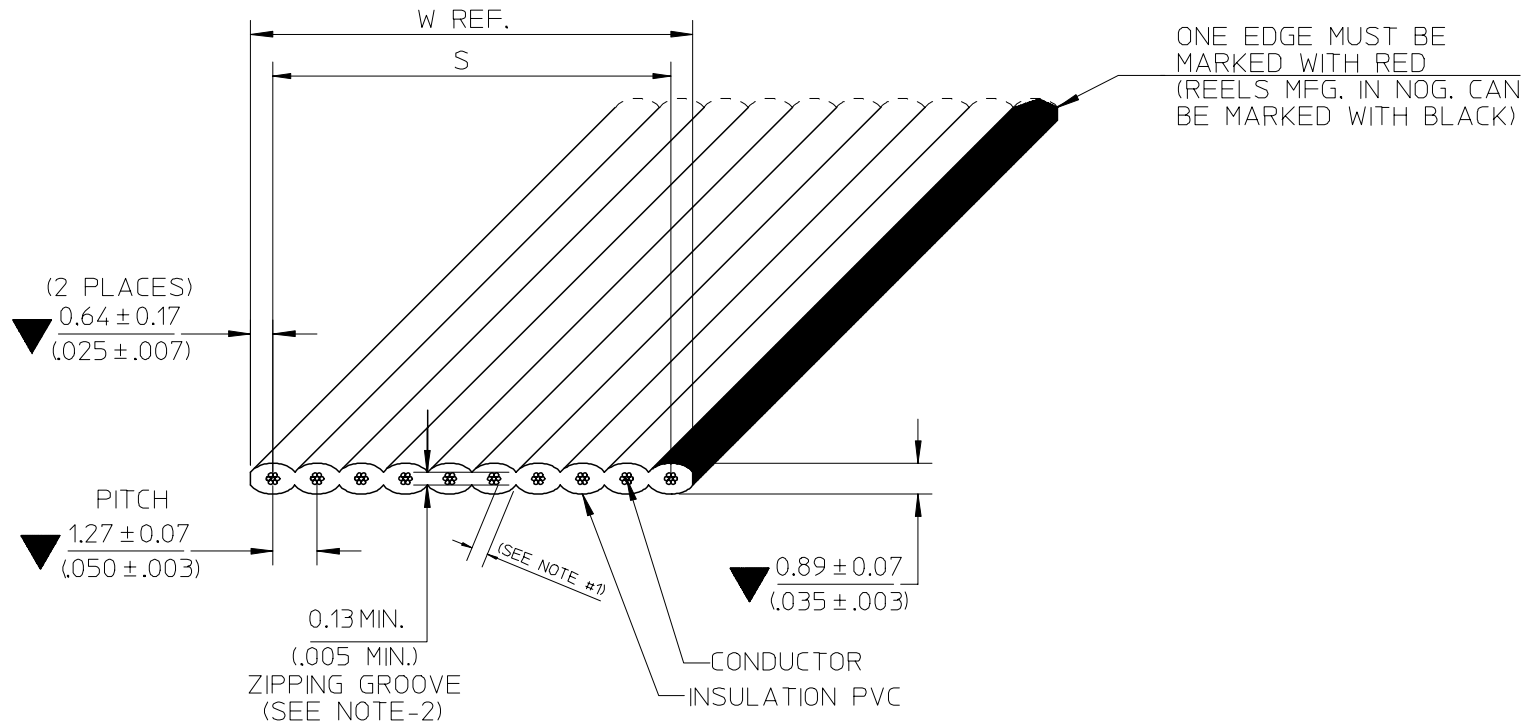
Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

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

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
$\nabla=3$	
$\nabla=0$	

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	$\pm \text{---}$	$\pm \text{---}$
3 PLACES	$\pm \text{---}$	$\pm \text{---}$
2 PLACES	$\pm \text{---}$	$\pm \text{---}$
1 PLACE	$\pm \text{---}$	$\pm \text{---}$
ANGULAR $\pm \text{---}^\circ$		
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	
SIZE	
A4	

SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
TITLE		
FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-6800-001		1 OF 3

	7	6	5	4	3	2	1																																																			
E	<div>SPECIFICATIONS</div> <div>PHYSICAL</div> <div>CONDUCTOR SPACING_____1.27(.050") ϕ TO ϕ</div> <div>WIRE GAUGE_____28 AWG(7/36) AWG, STRANDED TINNED</div> <div>INSULATION_____P.V.C GRAY (LEAD FREE)</div> <div>AGENCY</div> <div>U.L. STYLE NO._____2651</div> <div>TEMPERATURE RATING_____ -20°C TO 105°C</div> <div>VOLTAGE RATING_____300V.MAX.</div> <div>FLAMMABILITY RATING_____VW-1</div> <div>ELECTRICAL</div> <div>CONDUCTOR RESISTANCE (D.C.)_____68 m OHMS/FT. MAX.</div> <div>CHARACTERISTIC IMPEDANCE_____123 OHMS NOM. (GS)</div> <div>_____100 OHMS NOM. (GSG)</div> <div>CAPACITANCE_____9.1 pF/FT. NOM. (GS)</div> <div>_____17.0 pF/FT. NOM. (GSG)</div> <div>PROPAGATION DELAY_____1.4 ns/FT. NOM.</div> <div>INSULATION RESISTANCE_____10M OHMS (10FT. SAMPLE)</div> <div>DIELECTRIC WITHSTAND VOLTAGE_____2000 VRMS/MINUTE</div> <div>GENERAL</div> <div>$\triangle$ NON-OPERATING TEMPERATURE_____ -20°C TO 105°C</div> <div>FAULTS AND/OR SPLICES_____1/REEL MAX. 100⁺³₀ FT. (30.48^{+0.914}₀ M.)/REEL</div> <div>_____20FT. (6.096M.) MIN. LENGTH</div>							E																																																		
D								D																																																		
C								C																																																		
B								B																																																		
A	<table><tr><td rowspan="5">SEE CHANGE DETAIL. EC NO: THL2008-0015 DRWN:CPANSAKHOM 2007/11/28 CHKD:DNARINTARA 2007/11/29 APPR:SVIRATJAPOL 2007/12/04</td><td rowspan="5">DESCRIPTION REV</td><td>QUALITY SYMBOLS</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM/IN</td><td>SCALE NTS</td><td>DESIGN UNITS INCH</td><td rowspan="5"> THIRD ANGLE PROJECTION</td></tr><tr><td rowspan="4"> =  =</td><td></td><td>mm</td><td>INCH</td><td>DRAWN BY CPANSAKHOM</td><td>DATE 2006/07/12</td><td rowspan="4">TITLE FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED  MOLEX INCORPORATED</td></tr><tr><td>4 PLACES</td><td>±---</td><td>±---</td><td>CHECKED BY PMEECHAI</td><td>DATE 2006/07/12</td><td rowspan="3">DOCUMENT NO. SD-6800-001</td></tr><tr><td>3 PLACES</td><td>±---</td><td>±---</td><td>APPROVED BY SVIRATJAPOL</td><td>DATE 2006/07/12</td><td rowspan="2">SHEET NO. 2 OF 3</td></tr><tr><td>2 PLACES</td><td>±---</td><td>±---</td><td colspan="2">MATERIAL NO. SEE CHART</td></tr><tr><td>1 PLACE</td><td>±---</td><td>±---</td><td colspan="2">ANGULAR ±---°</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="6"></td></tr></table>							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 CPANSAKHOM	DATE 2006/07/12	TITLE FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED  MOLEX INCORPORATED	4 PLACES	±---	±---	CHECKED BY PMEECHAI	DATE 2006/07/12	DOCUMENT NO. SD-6800-001	3 PLACES	±---	±---	APPROVED BY SVIRATJAPOL	DATE 2006/07/12	SHEET NO. 2 OF 3	2 PLACES	±---	±---	MATERIAL NO. SEE CHART		1 PLACE	±---	±---	ANGULAR ±---°		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									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	
ENG. NO.		NO.OF COND.		DIMENSIONS INCHES (MM)		SHIPPED ON 100FT. REELS	
		DIMENSION S		DIM. W (REF)		ORDER NO.	
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 (1.50±.007)		5.08(.200)		6800-04-100B	82-28-5704
6800-5	5	5.08±0.18 (2.00±.007)		6.35(.250)		6800-05-100B	82-28-5705
6800-6	6	6.35±0.18 (2.50±.007)		7.62(.300)		6800-06-100B	82-28-5706
6800-7	7	7.62±0.18 (3.00±.007)		8.89(.350)		6800-07-100B	82-28-5707
6800-8	8	8.89±0.18 (3.50±.007)		10.16(.400)		6800-08-100B	82-28-5708
6800-9	9	10.16±0.18 (4.00±.007)		11.43(.450)		6800-09-100B	82-28-5709
6800-10	10	11.43±0.18 (4.50±.007)		12.70(.500)		6800-10-100B	82-28-5710
6800-11	11	12.70±0.18 (5.00±.007)		13.97(.550)		6800-11-100B	82-28-5711
6800-12	12	13.97±0.18 (5.50±.007)		15.24(.600)		6800-12-100B	82-28-5712
6800-13	13	15.24±0.18 (6.00±.007)		16.51(.650)		6800-13-100B	82-28-5713
6800-14	14	16.51±0.18 (6.50±.007)		17.78(.700)		6800-14-100B	82-28-5714
6800-15	15	17.78±0.18 (7.00±.007)		19.05(.750)		6800-15-100B	82-28-5715
6800-16	16	19.05±0.23 (7.50±.009)		20.32(.800)		6800-16-100B	82-28-5716
6800-17	17	20.32±0.23 (8.00±.009)		21.59(.850)		6800-17-100B	82-28-5717
6800-18	18	21.59±0.23 (8.50±.009)		22.86(.900)		6800-18-100B	82-28-5718
6800-19	19	22.86±0.23 (9.00±.009)		24.13(.950)		6800-19-100B	82-28-5719
6800-20	20	24.13±0.23 (9.50±.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		SCALE NTS		DESIGN UNITS INCH		DIMENSION STYLE MM/IN		GENERAL TOLERANCES (UNLESS SPECIFIED)		QUALITY SYMBOLS		SEE CHANGE DETAIL.	
TITLE		DRAWN BY		DATE		CHECKED BY		DATE		APPROVED BY		DATE	
FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED		CPANSAKHOM		2006/07/12		PMEETCHAI		2006/07/12		SVIRATJAPOL		2006/07/12	
MATERIAL NO.		SEE CHART		DOCUMENT NO.		SD-6800-001		SHEET NO.		3 OF 3		REV	
SIZE		A4		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ±---°		4 PLACES		10/12/11/007 2007	
										3 PLACES		11/11/11/007 2007	
										2 PLACES		11/11/11/007 2007	
										1 PLACE		11/11/11/007 2007	
										ANGULAR		11/11/11/007 2007	
										QUALITY SYMBOLS		11/11/11/007 2007	
										DRAWN:CPANSAKHOM		11/11/11/007 2007	
										CHECKED:DNARINTARA		11/11/11/007 2007	
										APPR:SVIRATJAPOL		11/11/11/007 2007	
										REV		11/11/11/007 2007	

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Rev. E 2006/04/15

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