



## Excellent Integrated System Limited

Stocking Distributor

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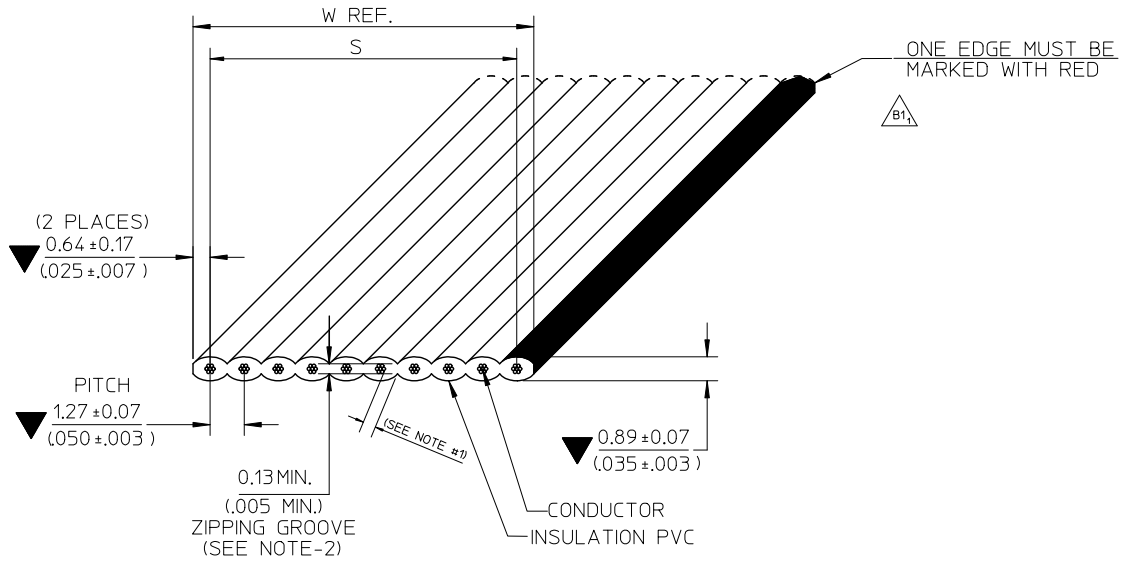
[Molex Connector Corporation](#)

[82-28-5734](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

7 6 5 4 3 2 1



- 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

PRODUCT APPLICATION	
<input checked="" type="checkbox"/>	GENERAL USE
<input type="checkbox"/>	AUTOMOTIVE
<input type="checkbox"/>	MEDICAL DEVICE

SEE CHANGE DETAIL. EC NO: THL2011-0054 DRWN: CPANSAKHOM 2010/10/05 CHKD: PMEECHAI 2011/01/25 APPR: SVIRAT JAPOL 2011/03/31	QUALITY SYMBOLS ▽=3 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM/IN	NTS	INCH		
DRAWN BY: CPANSAKHOM CHECKED BY: PMEECHAI APPROVED BY: SVIRAT JAPOL	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± --- °	DATE: 2006/07/12 DATE: 2006/07/12 DATE: 2006/07/12	TITLE: FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TINNED			Molex MOLEX INCORPORATED		SHEET NO. 1 OF 3
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		DOCUMENT NO. SD-6800-001			
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

tb\_frame\_A4\_P\_ME\_T  
Rev. E 2006/04/15

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SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 1.27(.050")  $\varnothing$  TO  $\varnothing$   
 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<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: THL2011-0054 DRWN:CPANSAKHOM 2010/10/05 CHKD:PMEECHAI 2011/01/25 APPR:SVIRATJAPOL 2011/03/31	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
			mm	INCH	MM/IN	NTS	INCH		
		4 PLACES	±---	±---	CPANSAKHOM	DATE	TITLE		
		3 PLACES	±---	±---	2006/07/12	FCB ROUND CONDUCTOR			
2 PLACES	±---	±---	PMEECHAI	DATE	1.27MM(.050)CENTERS PVC.				
1 PLACE	±---	±---	APPROVED BY	DATE	28AWG STR TINNED				
			SVIRATJAPOL	2006/07/12	MOLEX INCORPORATED				
			ANGULAR ±---°		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				

6 5 4 3 2 1

ENGINEERING NO.  
 6800-XX-XXXX  
 A B C D  
 A : CABLE 127mm. (050") CENTERS 28AWG STRANDED TINNED  
 B : CONDUCTOR SIZE ( AVAILABILITY 3 THROUGH 50 )  
 C : CABLE LENGTH 100FT. (30.48M)  
 D : A = INCHES  
 B = FEET

ENG. NO.	NO. OF COND.	DIMENSIONS INCHES (MM)		DIM. W (FEET)	ENGINEERING NO.	ORDER NO.
		S	S			
6800-3	3	254.0±0.18 (1000±0.07)	3.81±0.50 (96.86±0.13)	6800-03-100B	82-28-5703	
6800-4	4	381.0±0.18 (1500±0.07)	5.08±0.20 (129.0±0.05)	6800-04-100B	82-28-5704	
6800-5	5	508.0±0.18 (2000±0.07)	6.35±0.20 (162.7±0.05)	6800-05-100B	82-28-5705	
6800-6	6	635.0±0.18 (2500±0.07)	7.62±0.20 (193.0±0.05)	6800-06-100B	82-28-5706	
6800-7	7	762.0±0.18 (3000±0.07)	8.89±0.20 (225.8±0.05)	6800-07-100B	82-28-5707	
6800-8	8	889.0±0.18 (3500±0.07)	10.16±0.20 (258.0±0.05)	6800-08-100B	82-28-5708	
6800-9	9	1016.0±0.18 (4000±0.07)	11.43±0.20 (290.2±0.05)	6800-09-100B	82-28-5709	
6800-10	10	1143.0±0.18 (4500±0.07)	12.70±0.20 (322.7±0.05)	6800-10-100B	82-28-5710	
6800-11	11	1270.0±0.18 (5000±0.07)	13.97±0.20 (354.2±0.05)	6800-11-100B	82-28-5711	
6800-12	12	1397.0±0.18 (5500±0.07)	15.24±0.20 (386.7±0.05)	6800-12-100B	82-28-5712	
6800-13	13	1524.0±0.18 (6000±0.07)	16.51±0.20 (419.2±0.05)	6800-13-100B	82-28-5713	
6800-14	14	1651.0±0.18 (6500±0.07)	17.78±0.20 (451.7±0.05)	6800-14-100B	82-28-5714	
6800-15	15	1778.0±0.18 (7000±0.07)	19.05±0.20 (484.2±0.05)	6800-15-100B	82-28-5715	
6800-16	16	1905.0±0.23 (7500±0.09)	20.32±0.20 (516.7±0.05)	6800-16-100B	82-28-5716	
6800-17	17	2032.0±0.23 (8000±0.09)	21.59±0.20 (549.2±0.05)	6800-17-100B	82-28-5717	
6800-18	18	2159.0±0.23 (8500±0.09)	22.86±0.20 (581.7±0.05)	6800-18-100B	82-28-5718	
6800-19	19	2286.0±0.23 (9000±0.09)	24.13±0.20 (614.2±0.05)	6800-19-100B	82-28-5719	
6800-20	20	2413.0±0.23 (9500±0.09)	25.40±0.20 (646.7±0.05)	6800-20-100B	82-28-5720	
6800-21	21	2540.0±0.23 (10000±0.09)	26.67±0.20 (679.2±0.05)	6800-21-100B	82-28-5721	
6800-22	22	2667.0±0.23 (10500±0.09)	27.94±0.20 (711.7±0.05)	6800-22-100B	82-28-5722	
6800-23	23	2794.0±0.23 (11000±0.09)	29.21±0.20 (744.2±0.05)	6800-23-100B	82-28-5723	
6800-24	24	2921.0±0.23 (11500±0.09)	30.48±0.20 (776.7±0.05)	6800-24-100B	82-28-5724	
6800-25	25	3048.0±0.23 (12000±0.09)	31.75±0.20 (809.2±0.05)	6800-25-100B	82-28-5725	
6800-26	26	3175.0±0.23 (12500±0.09)	33.02±0.20 (841.7±0.05)	6800-26-100B	82-28-5726	
6800-27	27	3302.0±0.23 (13000±0.09)	34.29±0.20 (874.2±0.05)	6800-27-100B	82-28-5727	
6800-28	28	3429.0±0.23 (13500±0.09)	35.56±0.20 (906.7±0.05)	6800-28-100B	82-28-5728	
6800-29	29	3556.0±0.23 (14000±0.09)	36.83±0.20 (939.2±0.05)	6800-29-100B	82-28-5729	
6800-30	30	3683.0±0.23 (14500±0.09)	38.10±0.20 (971.7±0.05)	6800-30-100B	82-28-5730	
6800-31	31	3810.0±0.23 (15000±0.09)	39.37±0.20 (1004.2±0.05)	6800-31-100B	82-28-5731	
6800-32	32	3937.0±0.23 (15500±0.09)	40.64±0.20 (1036.7±0.05)	6800-32-100B	82-28-5732	
6800-33	33	4064.0±0.23 (16000±0.09)	41.91±0.20 (1069.2±0.05)	6800-33-100B	82-28-5733	
6800-34	34	4191.0±0.23 (16500±0.09)	43.18±0.20 (1101.7±0.05)	6800-34-100B	82-28-5734	
6800-35	35	4318.0±0.23 (17000±0.09)	44.45±0.20 (1134.2±0.05)	6800-35-100B	82-28-5735	
6800-36	36	4445.0±0.23 (17500±0.09)	45.72±0.20 (1166.7±0.05)	6800-36-100B	82-28-5736	
6800-37	37	4572.0±0.23 (18000±0.09)	46.99±0.20 (1199.2±0.05)	6800-37-100B	82-28-5737	
6800-38	38	4699.0±0.23 (18500±0.09)	48.26±0.20 (1231.7±0.05)	6800-38-100B	82-28-5738	
6800-39	39	4826.0±0.23 (19000±0.09)	49.53±0.20 (1264.2±0.05)	6800-39-100B	82-28-5739	
6800-40	40	4953.0±0.23 (19500±0.09)	50.80±0.20 (1296.7±0.05)	6800-40-100B	82-28-5740	
6800-41	41	5080.0±0.23 (20000±0.09)	52.07±0.20 (1329.2±0.05)	6800-41-100B	82-28-5741	
6800-42	42	5207.0±0.23 (20500±0.09)	53.34±0.20 (1361.7±0.05)	6800-42-100B	82-28-5742	
6800-43	43	5334.0±0.23 (21000±0.09)	54.61±0.20 (1394.2±0.05)	6800-43-100B	82-28-5743	
6800-44	44	5461.0±0.23 (21500±0.09)	55.88±0.20 (1426.7±0.05)	6800-44-100B	82-28-5744	
6800-45	45	5588.0±0.23 (22000±0.09)	57.15±0.20 (1459.2±0.05)	6800-45-100B	82-28-5745	
6800-46	46	5715.0±0.23 (22500±0.09)	58.42±0.20 (1491.7±0.05)	6800-46-100B	82-28-5746	
6800-47	47	5842.0±0.23 (23000±0.09)	59.69±0.20 (1524.2±0.05)	6800-47-100B	82-28-5747	
6800-48	48	5969.0±0.23 (23500±0.09)	60.96±0.20 (1556.7±0.05)	6800-48-100B	82-28-5748	
6800-49	49	6096.0±0.23 (24000±0.09)	62.23±0.20 (1589.2±0.05)	6800-49-100B	82-28-5749	
6800-50	50	6223.0±0.23 (24500±0.09)	63.50±0.20 (1621.7±0.05)	6800-50-100B	82-28-5750	

SEE CHANGE DETAIL. EC NO: THL2011-0054 DRAWN: CPANSAKHOM 2010/10/05 CHKD: PMEECHAI 2011/01/25 APPR: SVIRAT JAPOL 2011/03/31	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
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					SVIRAT JAPOL	2006/07/12	MATERIAL NO. SD-6800-001		
							DOCUMENT NO. 3 OF 3		
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