

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0082266818](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34) Stranded Tinned, 18 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 [8863](#)  
 Crimp Quality Equipment Yes  
 Geographic Area Asia  
 Product Name Ribbon

**Physical**

Cable Length 30.48m (100.0' )  
 Circuits (Loaded) 18  
 Circuits (maximum) 18  
 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 26  
 Wire/Cable Type (7x34) Stranded, Tinned

**Electrical**

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

**Material Info**

Old Part Number 8863-18-100B

**Reference - Drawing Numbers**

Sales Drawing SD-8863-001



**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](mailto: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**

[8863Series](#)

**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

SEE CHANGE DETAIL EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04	DESCRIPTION B	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
		▼=3 □=0	mm	INCH	MM/IN	NTS	INCH		
		4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE		
		3 PLACES	± ---	± ---	CPANSAKHOM	2006/07/18	FCB ROUND CONDUCTOR		
		2 PLACES	± ---	± ---	CHECKED BY	DATE	1.27MM(.050)CENTER PVC.		
1 PLACE	± ---	± ---	PMEECHAI	2006/07/18	26AWG STRANDED TINNED				
ANGULAR ± ---°			APPROVED BY	DATE	MOLEX INCORPORATED				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SVIRATJAPOL	2006/07/18	MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
			SEE CHART			SD-8863-001	1 OF 3		
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
			A 4						

B	E-07-0748	B <sub>1</sub> : ADD NON-OPERATING TEMP.	07/11/23
A	N/A	NEW RELEASE	06/07/18
REV. HISTORY	EC NO.	DETAIL	DATE

E

E

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING .....1.27 (.050")  $\zeta$  TO  $\zeta$   
 WIRE GAUGE ..... 26 AWG(7/34) 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.) ..... 43 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ..... 115 OHMS NOM. (GS)  
 93 OHMS NOM. (GSG)  
 CAPACITANCE .....8.9 pF/FT. NOM. (GS)  
 18.0 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 $^{+3}_0$  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 FCB ROUND CONDUCTOR 1.27MM(.050)CENTER PVC. 26AWG STRANDED TINNED		
			4 PLACES	±----	±----	CPANSAKHOM	2006/07/18			
			3 PLACES	±----	±----	CHECKED BY	DATE	MOLEX INCORPORATED		
			2 PLACES	±----	±----	PMEECHA I	2006/07/18			
1 PLACE	±----	±----	APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			ANGULAR ±----°		SEE CHART		SD-8863-001	2 OF 3		
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W

D

C

B

A

ENGINEERING NO.

8863-XX-XXXX

A B C D

A : CABLE 1.27mm. (050") CENTERS 26AWG STRANDED TINNED  
B : CONDUCTOR SIZE ( AVAILABILITY 3 THROUGH 50 )  
C : CABLE LENGTH 100FT. (30.48M)  
D : A = INCHES  
B = FEET

DIMENSIONS MM. (INCHES)

SHIPPED ON 100FT. REELS

ENG. NO.	NO.OF COND.	DIMENSION S	DIM. W (REF)	ENGINEERING NO.	ORDER NO.
8863-3	3	2.54±0.18 (100±.007)	3.81 (150)	8863-03-100B	82-26-6803
8863-4	4	3.81±0.18 (150±.007)	5.08 (200)	-04-	04
8863-5	5	5.08±0.18 (200±.007)	6.35 (250)	-05-	05
8863-6	6	6.35±0.18 (250±.007)	7.62 (300)	-06-	06
8863-7	7	7.62±0.18 (300±.007)	8.89 (350)	-07-	07
8863-8	8	8.89±0.18 (350±.007)	10.16 (400)	-08-	08
8863-9	9	10.16±0.18 (400±.007)	11.43 (450)	-09-	09
8863-10	10	11.43±0.18 (450±.007)	12.70 (500)	-10-	10
8863-11	11	12.70±0.18 (500±.007)	13.97 (550)	-11-	11
8863-12	12	13.97±0.18 (550±.007)	15.24 (600)	-12-	12
8863-13	13	15.24±0.18 (600±.007)	16.51 (650)	-13-	13
8863-14	14	16.51±0.18 (650±.007)	17.78 (700)	-14-	14
8863-15	15	17.78±0.18 (700±.007)	19.05 (750)	-15-	15
8863-16	16	19.05±0.23 (750±.009)	20.32 (800)	-16-	16
8863-17	17	20.32±0.23 (800±.009)	21.59 (850)	-17-	17
8863-18	18	21.59±0.23 (850±.009)	22.86 (900)	-18-	18
8863-19	19	22.86±0.23 (900±.009)	24.13 (950)	-19-	19
8863-20	20	24.13±0.23 (950±.009)	25.40 (1000)	-20-	20
8863-21	21	25.40±0.23 (1000±.009)	26.67 (1050)	-21-	21
8863-22	22	26.67±0.23 (1050±.009)	27.94 (1100)	-22-	22
8863-23	23	27.94±0.23 (1100±.009)	29.21 (1150)	-23-	23
8863-24	24	29.21±0.23 (1150±.009)	30.48 (1200)	-24-	24
8863-25	25	30.48±0.23 (1200±.009)	31.75 (1250)	-25-	25
8863-26	26	31.75±0.23 (1250±.009)	33.02 (1300)	-26-	26
8863-27	27	33.02±0.23 (1300±.009)	34.29 (1350)	-27-	27
8863-28	28	34.29±0.23 (1350±.009)	35.56 (1400)	-28-	28
8863-29	29	35.56±0.23 (1400±.009)	36.83 (1450)	-29-	29
8863-30	30	36.83±0.23 (1450±.009)	38.10 (1500)	-30-	30
8863-31	31	38.10±0.23 (1500±.009)	39.37 (1550)	-31-	31
8863-32	32	39.37±0.23 (1550±.009)	40.64 (1600)	-32-	32
8863-33	33	40.64±0.23 (1600±.009)	41.91 (1650)	-33-	33
8863-34	34	41.91±0.23 (1650±.009)	43.18 (1700)	-34-	34
8863-35	35	43.18±0.23 (1700±.009)	44.45 (1750)	-35-	35
8863-36	36	44.45±0.23 (1750±.009)	45.72 (1800)	-36-	36
8863-37	37	45.72±0.28 (1800±.011)	46.99 (1850)	-37-	37
8863-38	38	46.99±0.28 (1850±.011)	48.26 (1900)	-38-	38
8863-39	39	48.26±0.28 (1900±.011)	49.53 (1950)	-39-	39
8863-40	40	49.53±0.28 (1950±.011)	50.80 (2000)	-40-	40
8863-41	41	50.80±0.28 (2000±.011)	52.07 (2050)	-41-	41
8863-42	42	52.07±0.28 (2050±.011)	53.34 (2100)	-42-	42
8863-43	43	53.34±0.28 (2100±.011)	54.61 (2150)	-43-	43
8863-44	44	54.61±0.28 (2150±.011)	55.88 (2200)	-44-	44
8863-45	45	55.88±0.28 (2200±.011)	57.15 (2250)	-45-	45
8863-46	46	57.15±0.28 (2250±.011)	58.42 (2300)	-46-	46
8863-47	47	58.42±0.28 (2300±.011)	59.69 (2350)	-47-	47
8863-48	48	59.69±0.28 (2350±.011)	60.96 (2400)	-48-	48
8863-49	49	60.96±0.28 (2400±.011)	62.23 (2450)	-49-	49
8863-50	50	62.23±0.28 (2450±.011)	63.50 (2500)	8863-50-100B	82-26-6850

THIRD ANGLE PROJECTION

DESIGN UNITS INCH

SCALE NTS

FCB ROUND CONDUCTOR 1.27MM(.050)CENTER PVC. 26AWG STRANDED TINNED



MOLEX INCORPORATED

DOCUMENT NO.

SD-8863-001

SHEET NO.

3 OF 3

DIMENSION STYLE MM/IN

DRAWN BY CPANSAKHOM DATE 2006/07/18  
CHECKED BY PREECHAI DATE 2006/07/18  
APPROVED BY SVIRATJAPOL DATE 2006/07/18

MATERIAL NO. SEE CHART

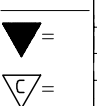
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GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	+ .004	+ .0015
3 PLACES	+ .005	+ .002
2 PLACES	+ .007	+ .0025
1 PLACE	+ .009	+ .0035
ANGULAR ± .005°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

QUALITY SYMBOLS



DESCRIPTION

70/21/0002 T01ATJAPOL  
62/11/0002 VAWRINTARA  
82/11/0002 MOHSAKSAKJANON  
5/00-8002 THL ON CE  
SEE ENGVHCHD

REV

5

6

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4

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