

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082266827](#)
Status: **Active**
Description: 1.27mm (.050") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34) Stranded Tinned, 27 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) 27
 Circuits (maximum) 27
 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 8863-27-100B

Reference - Drawing Numbers

Sales Drawing SD-8863-001



EU RoHS

Compliance Status

Not Reviewed

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](#)

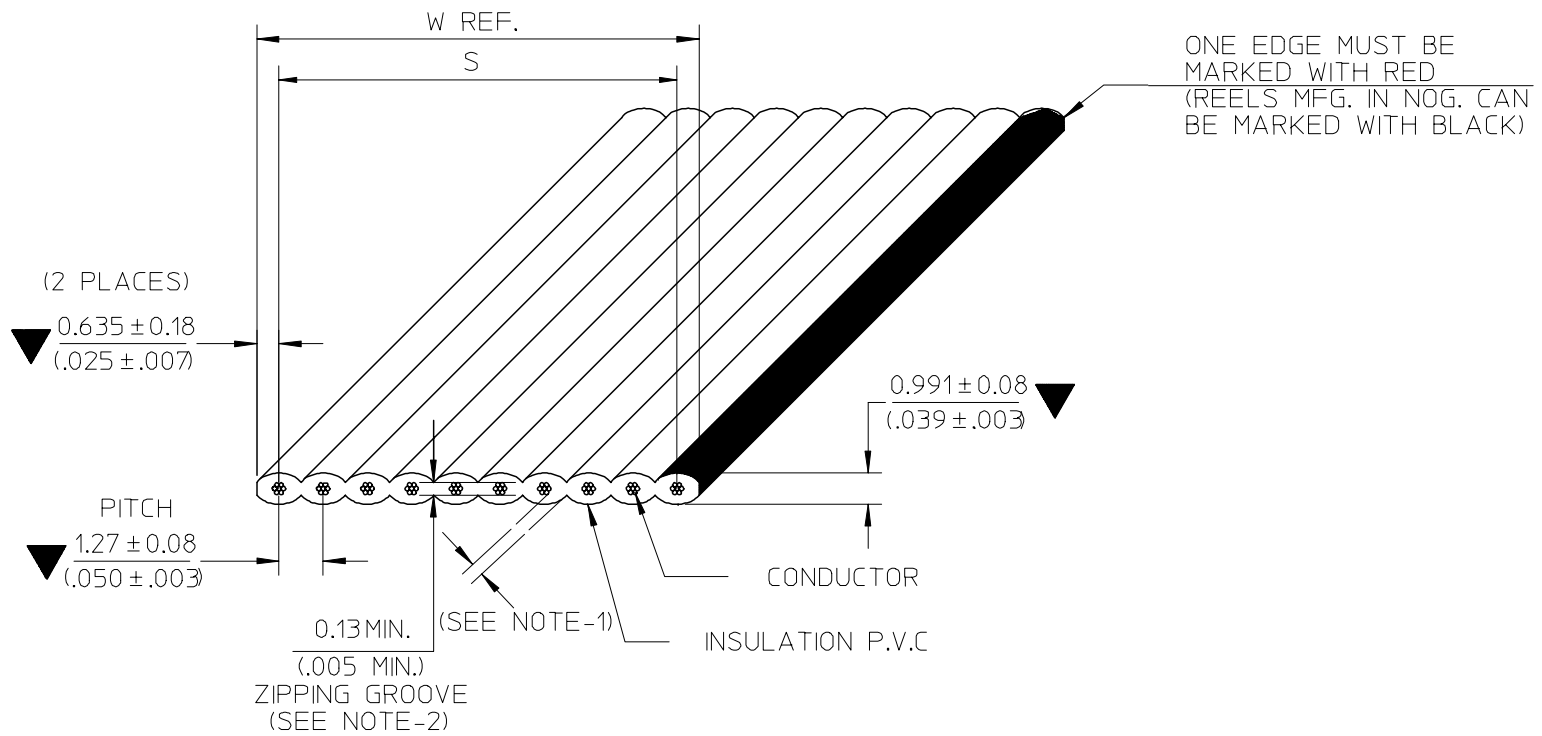
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[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 ± ---°		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY	DATE	MOLEX INCORPORATED			
				SVIRATJAPOL	2006/07/18	DOCUMENT NO.	SHEET NO.		
				SEE CHART		SD-8863-001	1 OF 3		
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 1.27 (.050") C TO C
 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

△ 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	INCH	MM/IN		NTS	INCH		
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°				DRAWN BY	DATE	TITLE			
						CPANSAKHOM	2006/07/18	FCB ROUND CONDUCTOR 1.27MM(.050)CENTER PVC. 26AWG STRANDED TINNED			
						CHECKED BY	DATE	APPROVED BY		DATE	MOLEX MOLEX INCORPORATED

DRAFT WHERE APPLICABLE
 MUST REMAIN
 WITHIN DIMENSIONS

MATERIAL NO. SEE CHART
 DOCUMENT NO. SD-8863-001
 SHEET NO. 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.

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

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	+ .004	+ .0015
3 PLACES	+ .005	+ .002
2 PLACES	+ .006	+ .0025
1 PLACE	+ .008	+ .003

ANGULAR ±.005°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

QUALITY SYMBOLS



DESCRIPTION REV

DESCRIPTION	REV
70/21/0002 T00TJAPOL	1
APPR:SVIRATJAPOL	
CHK:CPANSAKHOM	
DRW:CPANSAKHOM	
5:00-8002:HL:ON CE	