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Part Number: [0082225904](#)
Status: **Active**
Description: 3.96mm (.156") Pitch Round Conductor Flat Cable - 22 AWG (7 x 30) Stranded, Topcoat, 4 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	8868
Crimp Quality Equipment	Yes
Geographic Area	Asia
Product Name	Ribbon

Physical

Cable Length	30.48m (100.0')
Circuits (Loaded)	4
Insulation	PVC
Packaging Type	Reel
Pitch - Term. Interface (in)	0.156 In
Pitch - Term. Interface (mm)	3.96 mm
Temperature Range - Operating	-20°C to +105°C
Wire Size AWG	22
Wire/Cable Type	(7x30) Stranded, Topcoat

Electrical

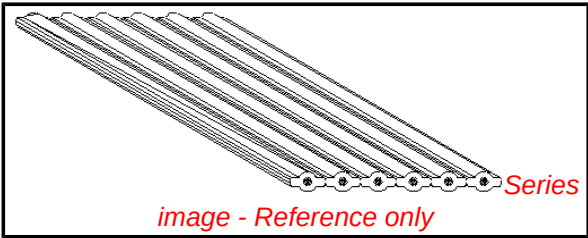
Current - Maximum per Contact	N/A
Voltage - Maximum	300V

Material Info

Old Part Number	8868-04-100B
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Reference - Drawing Numbers

Sales Drawing	SD-8868-001
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EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



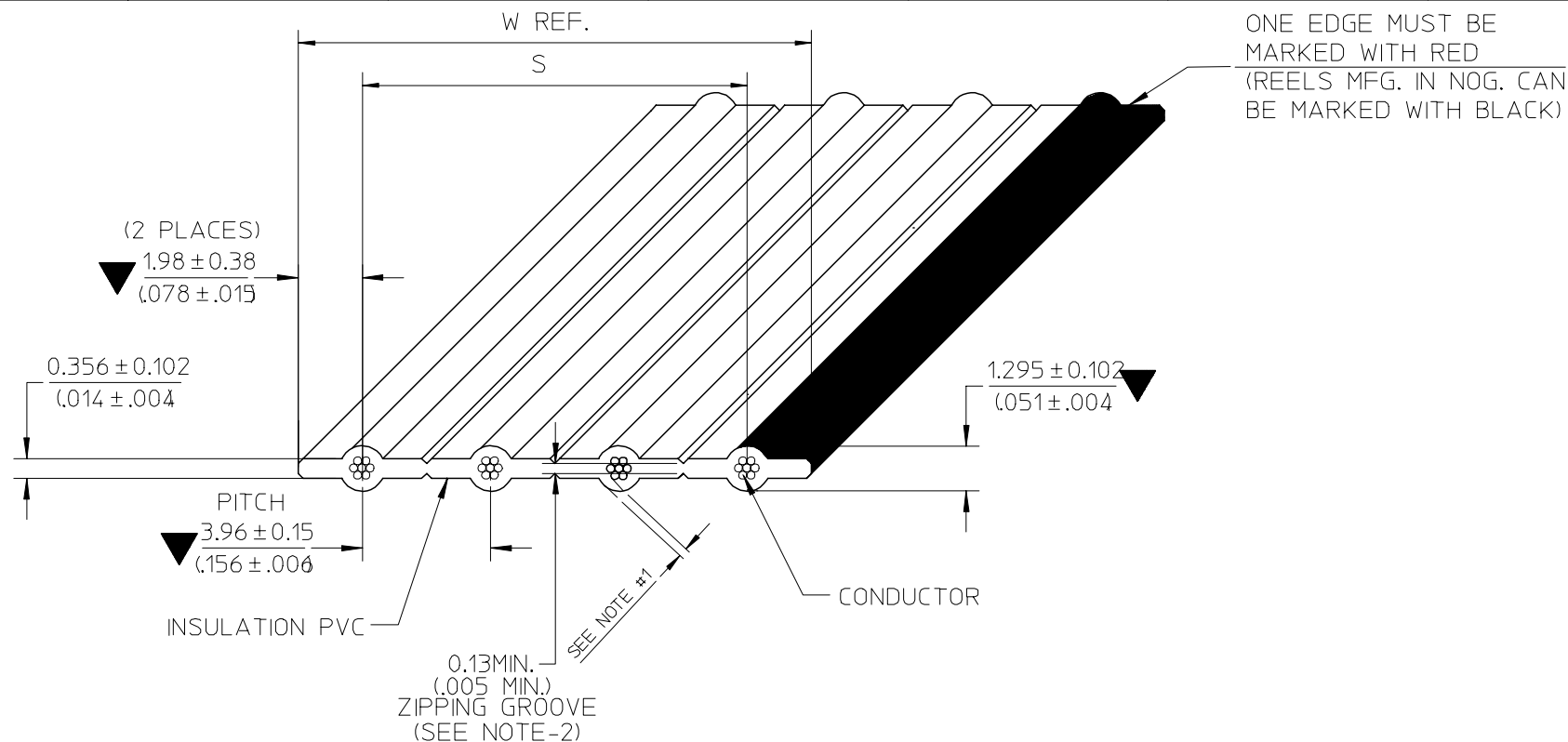
Need more information on product environmental compliance?

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
[8868Series](#)

Use With
[7674](#) KK® IDT Trifurcon Contact. [7675](#) KK® IDT Double Cantilever Contact



- 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 ₂ : ADD NON-OPERATING TEMP.	07/09/27
A	N/A	B ₁ : ADD SOLDERING CONDITION	06/08/09
REV.	EC NO.	INITIAL DRAFT	DATE
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
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± ---
1 PLACE	± ---
ANGULAR ± ---°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
CPANSAKHOM	2006/08/09
CHECKED BY	DATE
PMEECHAI	2006/08/09
APPROVED BY	DATE
SVIRATJAPOL	2006/08/09
MATERIAL NO.	
SEE CHART	
SIZE	
A4	

SCALE NTS	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE		
FCB ROUND CONDUCTOR 3.96MM(.156)CENTERS PVC. 22AWG STRANDED TOPCOATED		
 MOLEX INCORPORATED		
DOCUMENT NO. SD-8868-001		SHEET NO. 1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

7	6	5	4	3	2	1	
E	SPECIFICATIONS						E
D	PHYSICAL						D
	CONDUCTOR SPACING _____ 3.96 (.156") C TO C						
	WIRE GAUGE _____ 22 AWG(7/30) STRANDED TOPCOATED						
	INSULATION _____ P.V.C GRAY (LEAD FREE)						
C	AGENCY						C
	U.L. STYLE NO. _____ 2651						
	TEMPERATURE RATING _____ -20°C TO 105°C						
	VOLTAGE RATING _____ 300V.MAX.						
B	FLAMMABILITY RATING _____ VW-1						B
	ELECTRICAL						
	CONDUCTOR RESISTANCE (D.C.) _____ 17 m OHMS/FT. MAX.						
	CHARACTERISTIC IMPEDANCE _____ 140 OHMS NOM. (GS) 123 OHMS NOM. (GSG)						
A	CAPACITANCE _____ 4.7 pF/FT. NOM. (GS) 8.5 pF/FT. NOM. (GSG)						A
	PROPAGATION DELAY _____ 1.4 ns/FT. NOM.						
	INSULATION RESISTANCE _____ 10 ⁴ M OHMS (10FT. SAMPLE)						
	DIELECTRIC WITHSTAND VOLTAGE _____ 2000 VRMS/MINUTE						
B	GENERAL						B
	B ₂ 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						
	B ₂ SOLDERING CONDITION						
A	SOLDER TEMPERATURE _____ -260°C. MAX.						A
	SOLDERING TIME _____ 3 SECOND, MAX.						
	INSULATION SHRINK _____ 2MM. NOM						
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 REV	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION STYLE MM/IN DRAWN BY DATE CPANSAKHOM 2006/08/09 CHECKED BY DATE PMEECHAI 2006/08/09 APPROVED BY DATE SVIRATJAPOL 2006/08/09 MATERIAL NO. SEE CHART	SCALE NTS TITLE FCB ROUND CONDUCTOR 3.96MM(.156)CENTERS PVC. 22AWG STRANDED TOPCOATED MOLEX MOLEX INCORPORATED DOCUMENT NO. SD-8868-001	DESIGN UNITS INCH THIRD ANGLE PROJECTION SHEET NO. 2 OF 3	
tb_frame_A4_P_ME_T Rev. E 2006/04/15		6	5	4	3	2	1

7 6 5 4 3 2 1

CHART A				SHIPPED ON	
DIMENSIONS MM. (INCHES)				100 FT. REELS	
ENG. NO.	NO.OF COND.	DIMENSION S	DIM. W (REF)	ENGINEERING NO.	ORDER NO.
8868- 2	2	3.96±0.15 (.156±.006)	7.92 (.312)	8868-02-100B	82-22-5902
8868- 3	3	7.92±0.25 (.312±.010)	11.89 (.468)	▲ -03- ▲	▲ 03
8868- 4	4	11.89±0.38 (.468±.015)	15.85 (.624)	▲ -04- ▲	▲ 04
8868- 5	5	15.85±0.38 (.624±.015)	19.81 (.780)	▲ -05- ▲	▲ 05
8868- 6	6	19.81±0.38 (.780±.015)	23.77 (.936)	▲ -06- ▲	▲ 06
8868- 7	7	23.77±0.38 (.936±.015)	27.74 (1.092)	▲ -07- ▲	▲ 07
8868- 8	8	27.74±0.38 (1.092±.015)	31.70 (1.248)	▲ -08- ▲	▲ 08
8868- 9	9	31.70±0.38 (1.248±.015)	35.66 (1.404)	▲ -09- ▲	▲ 09
8868-10	10	35.66±0.38 (1.404±.015)	39.62 (1.560)	▲ -10- ▲	▲ 10
8868-11	11	39.62±0.38 (1.560±.015)	43.59 (1.716)	▲ -11- ▲	▲ 11
8868-12	12	43.59±0.38 (1.716±.015)	47.55 (1.872)	▲ -12- ▲	▲ 12
8868-13	13	47.55±0.38 (1.872±.015)	51.51 (2.028)	▲ -13- ▲	▲ 13
8868-14	14	51.51±0.38 (2.028±.015)	55.47 (2.184)	▲ -14- ▲	▲ 14
8868-15	15	55.47±0.38 (2.184±.015)	59.44 (2.340)	▲ -15- ▲	▲ 15
8868-16	16	59.44±0.38 (2.340±.015)	63.40 (2.496)	▼ -16- ▼	▼ 16

ENGINEERING NO.

8868-XX-XXXX

A B C D

A : CABLE 3.96mm. (.156") CENTERS 22 AWG STRANDED TOPCOATED

B : CONDUCTOR SIZE (AVAILABILITY 2 THROUGH 16)

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

D : A = INCHES

B = FEET

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 ▽ = C =	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY CPANSAKHOM	DATE 2006/08/09	TITLE FCB ROUND CONDUCTOR 3.96MM(.156)CENTERS PVC. 22AWG STRANDED TOPCOATED  MOLEX INCORPORATED				
			4 PLACES	± ---	± ---	CHECKED BY PMEECHAI	DATE 2006/08/09					
			3 PLACES	± ---	± ---	APPROVED BY	DATE					
			2 PLACES	± ---	± ---	SVIRATJAPOL	2006/08/09					
			1 PLACE	± ---	± ---	MATERIAL NO.					DOCUMENT NO.	SHEET NO.
			ANGULAR ± ---°			SEE CHART		SD-8868-001			3 OF 3	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
						SIZE A 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					