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Part Number: [0082245915](#)
Status: **Active**
Description: 2.54mm (.100") Pitch Round Conductor Flat Cable - 24 AWG (7 x 32) Stranded, Topcoat, 15 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	8997
Crimp Quality Equipment	Yes
Geographic Area	Asia
Product Name	Ribbon

Physical

Cable Length	30.48m (100.0')
Circuits (Loaded)	15
Insulation	PVC
Packaging Type	Reel
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. Interface (mm)	2.54 mm
Temperature Range - Operating	-20°C to +105°C
Wire Size AWG	24
Wire/Cable Type	(7x32) Stranded, Topcoat

Electrical

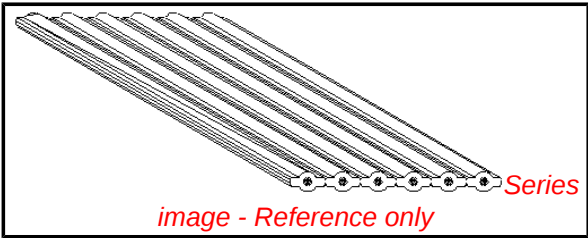
Current - Maximum per Contact	N/A
Voltage - Maximum	300V

Material Info

Old Part Number	8997-15-100B
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Reference - Drawing Numbers

Sales Drawing	SD-8997-001
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EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
Halogen-Free
Status
Not Reviewed

China RoHS



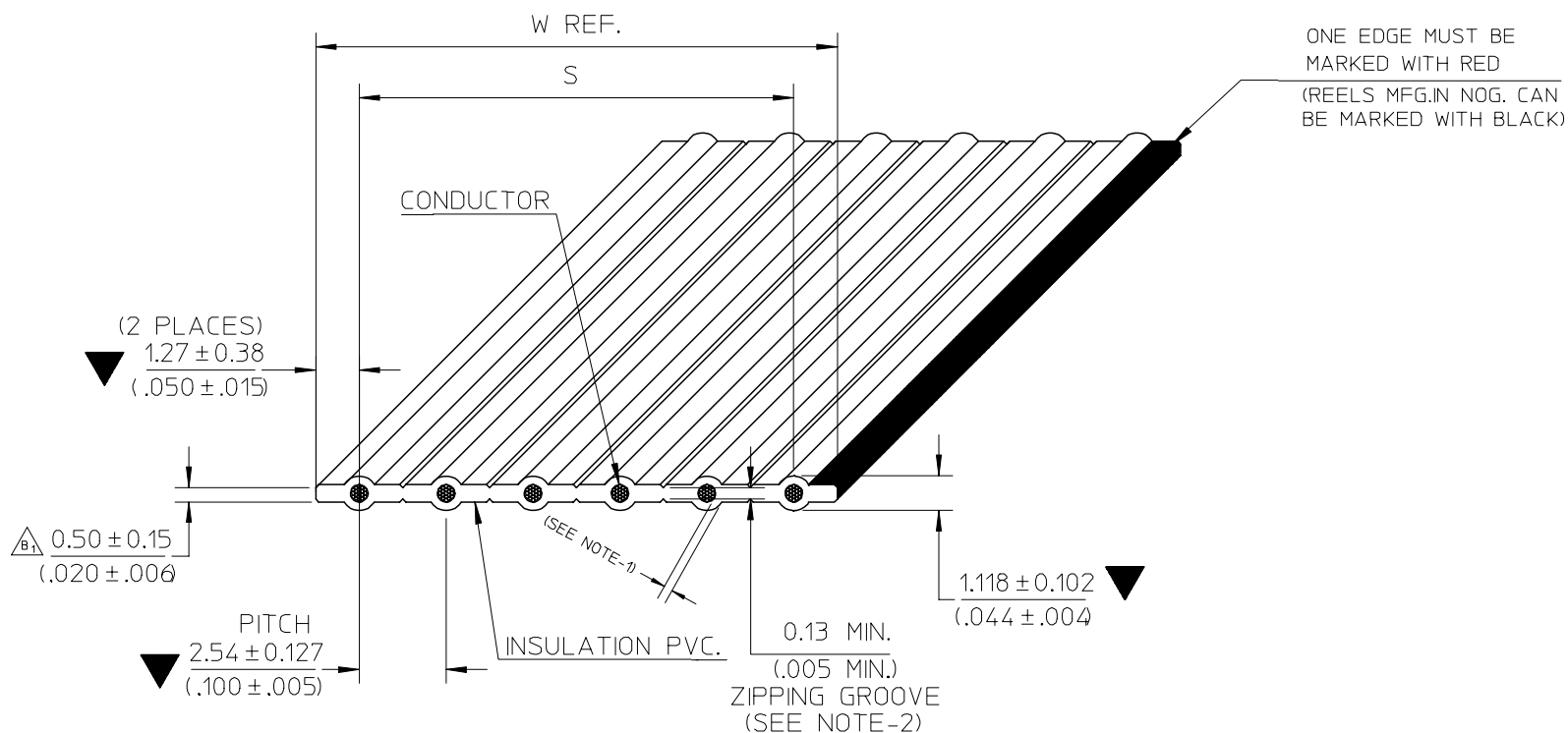
Need more information on product environmental compliance?

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
[8997Series](#)

Use With
[70400](#) C-Grid SL™ IDT Connector Assembly.
[70475](#) SL™ IDT Connector Assembly.
[7720](#) 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 ₄ : ADD NON-OPERATING TEMP.	07/09/26
		B ₃ : ADD SOLDERING CONDITION	
		B ₂ : CHANGE ELECTRICAL	
		B ₁ : CHANGE WEB THICKNESS	
A	N/A	NEW RELEASE	06/07/18
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	DESCRIPTION	QUALITY SYMBOLS ▽=3 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY CPANSAKHOM		DATE 2006/07/18	TITLE FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 24AWG STRANDED TOPCOATED			
			4 PLACES	± ---	± ---	CHECKED BY PMEECHAI		DATE 2006/07/18				
			3 PLACES	± ---	± ---	APPROVED BY SVIRATJAPOL		DATE 2006/07/18	MOLEX MOLEX INCORPORATED			
			2 PLACES	± ---	± ---	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-8997-001				
			1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
			ANGULAR ± ---°									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									
			SIZE A4									

7 6 5 4 3 2 1

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING _ _ _ _ _ 2.54 (.100") $\overline{C}$ TO $\overline{C}$
WIRE GAUGE _ _ _ _ _ 24 AWG(7/32) STRANDED TOPCOATED
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

$\triangle_{B_2}$ ELECTRICAL

CONDUCTOR RESISTANCE (D.C.) _ _ _ _ _ 27m. OHMS/FT. MAX.
CHARACTERISTIC IMPEDANCE _ _ _ _ _ 134 OHMS NOM. (GS)
114 OHMS NOM. (GSG)
CAPACITANCE _ _ _ _ _ 6.6 pF/FT. NOM. (GS)
12.0 pF/FT. NOM. (GSG)
PROPAGATION DELAY _ _ _ _ _ 1.4 ns/FT. NOM.
INSULATION RESISTANCE _ _ _ _ _ 10M OHMS (10FT. SAMPLE)
DIELECTRIC WITHSTAND VOLTAGE _ _ _ _ _ 2000 VRMS/MINUTE

GENERAL

$\triangle_{B_4}$ NON-OPERATING TEMPERATURE _ _ _ _ _ -20°C TO 105°C
FAULTS AND/OR SPLICES _ _ _ _ _ 1/REEL MAX. 100 $\pm$ ₀³FT. (30.48 $\pm$ ₀^{0.914}M.)/REEL
20FT. (6.096M.) MIN. LENGTH

$\triangle_{B_3}$ SOLDERING CONDITION

SOLDER TEMPERTURE _ _ _ _ _ -260°C. MAX.
SOLDERING TIME _ _ _ _ _ 3 SECOND, MAX.
INSULATION SHRINK _ _ _ _ _ 2MM. NOM.

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E	<table><tr><th colspan="5">CHART A</th></tr><tr><th colspan="5">DIMENSIONS MM. (INCHES)</th></tr><tr><th>ENGINEERING NO.</th><th>ORDER NO.</th><th>NO. OF CONDUCTOR</th><th>DIMENSION S</th><th>DIM. W (REF.)</th></tr><tr><td>8997-02-100B</td><td>82-24-5902</td><td>2</td><td>2.54±0.127(.100±.005)</td><td>5.08 (.200)</td></tr><tr><td>▲ -03- ▲</td><td>▲ 03</td><td>3</td><td>5.08±0.20 (.200±.008)</td><td>7.62 (.300)</td></tr><tr><td>-04-</td><td>04</td><td>4</td><td>7.62±0.30 (.300±.012)</td><td>10.16 (.400)</td></tr><tr><td>-05-</td><td>05</td><td>5</td><td>10.16±0.33 (.400±.013)</td><td>12.70 (.500)</td></tr><tr><td>-06-</td><td>06</td><td>6</td><td>12.70±0.33 (.500±.013)</td><td>15.24 (.600)</td></tr><tr><td>-07-</td><td>07</td><td>7</td><td>15.24±0.33 (.600±.013)</td><td>17.78 (.700)</td></tr><tr><td>-08-</td><td>08</td><td>8</td><td>17.78±0.33 (.700±.013)</td><td>20.32 (.800)</td></tr><tr><td>-09-</td><td>09</td><td>9</td><td>20.32±0.33 (.800±.013)</td><td>22.86 (.900)</td></tr><tr><td>-10-</td><td>10</td><td>10</td><td>22.86±0.33 (.900±.013)</td><td>25.40 (1.000)</td></tr><tr><td>-11-</td><td>11</td><td>11</td><td>25.40±0.33 (1.000±.013)</td><td>27.94 (1.100)</td></tr><tr><td>-12-</td><td>12</td><td>12</td><td>27.94±0.33 (1.100±.013)</td><td>30.48 (1.200)</td></tr><tr><td>-13-</td><td>13</td><td>13</td><td>30.48±0.33 (1.200±.013)</td><td>33.02 (1.300)</td></tr><tr><td>-14-</td><td>14</td><td>14</td><td>33.02±0.33 (1.300±.013)</td><td>35.56 (1.400)</td></tr><tr><td>-15-</td><td>15</td><td>15</td><td>35.56±0.33 (1.400±.013)</td><td>38.10 (1.500)</td></tr><tr><td>-16-</td><td>16</td><td>16</td><td>38.10±0.33 (1.500±.013)</td><td>40.64 (1.600)</td></tr><tr><td>-17-</td><td>17</td><td>17</td><td>40.64±0.33 (1.600±.013)</td><td>43.18 (1.700)</td></tr><tr><td>-18-</td><td>18</td><td>18</td><td>43.18±0.33 (1.700±.013)</td><td>45.72 (1.800)</td></tr><tr><td>▼ -19- ▼</td><td>▼ 19</td><td>19</td><td>45.72±0.33 (1.800±.013)</td><td>48.26 (1.900)</td></tr><tr><td>8997-20-100B</td><td>82-24-5920</td><td>20</td><td>48.26±0.33 (1.900±.013)</td><td>50.80 (2.000)</td></tr></table>							CHART A					DIMENSIONS MM. (INCHES)					ENGINEERING NO.	ORDER NO.	NO. OF CONDUCTOR	DIMENSION S	DIM. W (REF.)	8997-02-100B	82-24-5902	2	2.54±0.127(.100±.005)	5.08 (.200)	▲ -03- ▲	▲ 03	3	5.08±0.20 (.200±.008)	7.62 (.300)	-04-	04	4	7.62±0.30 (.300±.012)	10.16 (.400)	-05-	05	5	10.16±0.33 (.400±.013)	12.70 (.500)	-06-	06	6	12.70±0.33 (.500±.013)	15.24 (.600)	-07-	07	7	15.24±0.33 (.600±.013)	17.78 (.700)	-08-	08	8	17.78±0.33 (.700±.013)	20.32 (.800)	-09-	09	9	20.32±0.33 (.800±.013)	22.86 (.900)	-10-	10	10	22.86±0.33 (.900±.013)	25.40 (1.000)	-11-	11	11	25.40±0.33 (1.000±.013)	27.94 (1.100)	-12-	12	12	27.94±0.33 (1.100±.013)	30.48 (1.200)	-13-	13	13	30.48±0.33 (1.200±.013)	33.02 (1.300)	-14-	14	14	33.02±0.33 (1.300±.013)	35.56 (1.400)	-15-	15	15	35.56±0.33 (1.400±.013)	38.10 (1.500)	-16-	16	16	38.10±0.33 (1.500±.013)	40.64 (1.600)	-17-	17	17	40.64±0.33 (1.600±.013)	43.18 (1.700)	-18-	18	18	43.18±0.33 (1.700±.013)	45.72 (1.800)	▼ -19- ▼	▼ 19	19	45.72±0.33 (1.800±.013)	48.26 (1.900)	8997-20-100B	82-24-5920	20	48.26±0.33 (1.900±.013)	50.80 (2.000)		E
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