

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

**Part Number:** [0082244420](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Round Conductor Flat Cable - 24 AWG (7 x 32) Stranded, Topcoat, 20 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 [24472](#)  
 Crimp Quality Equipment Yes  
 Geographic Area Asia  
 Product Name Ribbon

**Physical**

Cable Length 30.48m (100.0' )  
 Circuits (Loaded) 20  
 Insulation PVC  
 Packaging Type Reel  
 Pitch - Term. Interface (in) 0.079 In  
 Pitch - Term. Interface (mm) 2.00 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 24472-20-100B

**Reference - Drawing Numbers**

Sales Drawing SD-24472-001



**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](#)

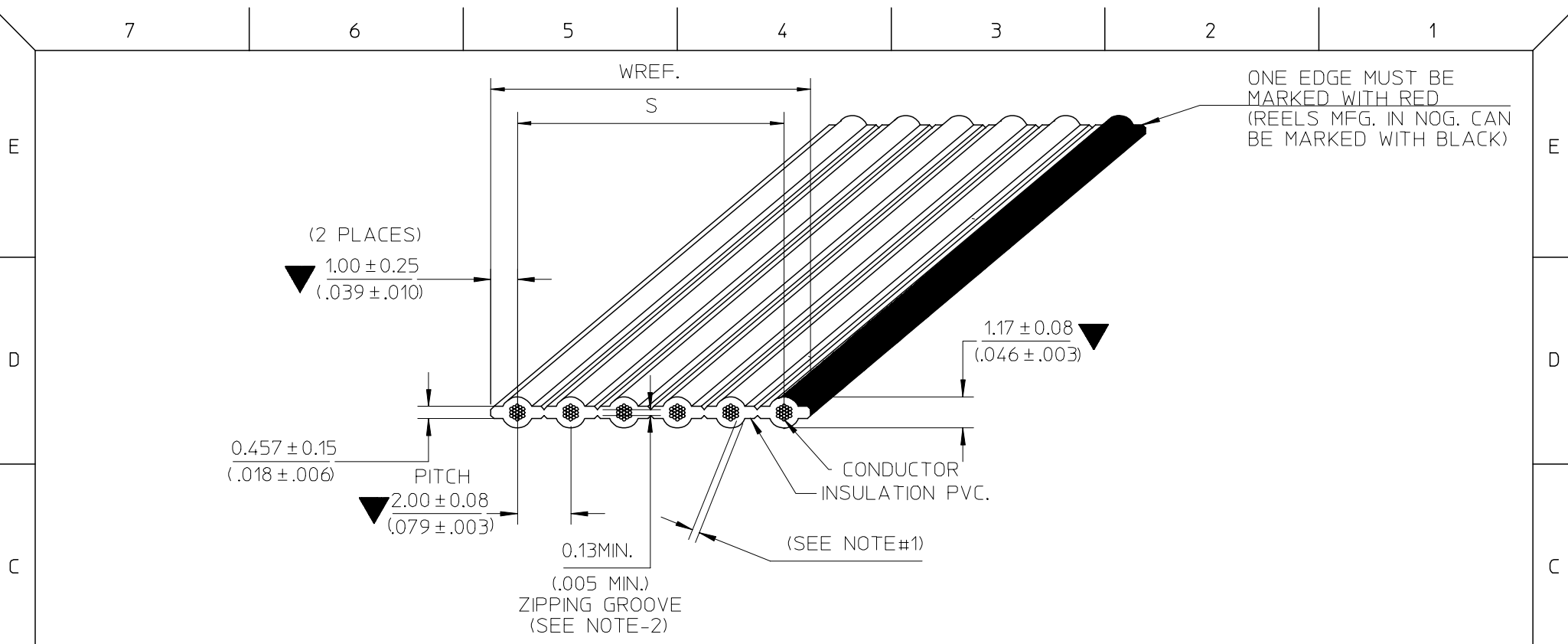
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[24472Series](#)

**Use With**

[52484](#) Wire-to-Board, IDT Receptacle Housing



- 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 <sub>2</sub> : ADD NON-OPERATING TEMP. B <sub>3</sub> : ADD SOLDERING CONDITION	07/10/01
A	N/A	NEW RELEASE	06/08/09
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

QUALITY SYMBOLS	DESCRIPTION
▽=3	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± --- ± ---
1 PLACE	± --- ± ---
ANGULAR ± ---°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE		SCALE	DESIGN UNITS
MM/IN		NTS	INCH
DRAWN BY	DATE	TITLE	
CPANSAKHOM	2006/08/09	FCB ROUND CONDUCTOR 2.00MM(.079)CENTERS PVC. 24AWG STRANDED TOPCOATED	
CHECKED BY	DATE	MOLEX INCORPORATED	
PMEECHAI	2006/08/09	MATERIAL NO. DOCUMENT NO. SHEET NO.	
APPROVED BY	DATE	SD-24472-001	1 OF 3
SVIRATJAPOL	2006/08/09	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	

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SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING \_ \_ \_ \_ \_ 2.00 (.079")  $\text{\textcircled{C}}$  TO  $\text{\textcircled{C}}$   
 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

ELECTRICAL

CONDUCTOR RESISTANCE (D.C.) \_ \_ \_ \_ \_ 24.0 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE \_ \_ \_ \_ \_ 148 OHMS NOM. (GS)  
 106 OHMS NOM. (GSG)  
 CAPACITANCE \_ \_ \_ \_ \_ 8.5 pF/FT. NOM. (GS)  
 13.4 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY \_ \_ \_ \_ \_ 1.4 ns/FT. NOM.  
 INSULATION RESISTANCE \_ \_ \_ \_ \_ 10M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE \_ \_ \_ \_ \_ 2000 VRMS/MINUTE

GENERAL

$\text{\textcircled{B}}$  NON-OPERATING TEMPERATURE \_ \_ \_ \_ \_ -20°C TO 105°C  
 FAULTS AND/OR SPLICES \_ \_ \_ \_ \_ 1/REEL MAX. 100 $^{+3}$ <sub>0</sub> FT. (30.48 $^{+0.914}$ <sub>0</sub> M.)/REEL  
 20FT. (6.096M.) MIN. LENGTH  
 $\text{\textcircled{B}}$  SOLDERING CONDITION  
 SOLDER TEMPERATURE \_ \_ \_ \_ \_ -260°C. MAX.  
 SOLDERING TIME \_ \_ \_ \_ \_ 3 SECOND, MAX.  
 INSULATION SHRINK \_ \_ \_ \_ \_ 2MM. NOM

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	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
	$\text{\textcircled{B}}$ = $\text{\textcircled{C}}$ =	mm	INCH	MM/IN		NTS	INCH	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 DOCUMENT NO. SD-24472-001 SHEET NO. 2 OF 3		
		4 PLACES $\pm$ ---	$\pm$ ---	DRAWN BY DATE		TITLE				
		3 PLACES $\pm$ ---	$\pm$ ---	CHECKED BY DATE		FCB ROUND CONDUCTOR		MOLEX INCORPORATED 2.00MM(.079)CENTERS PVC. 24AWG STRANDED TOPCOATED		
		2 PLACES $\pm$ ---	$\pm$ ---	APPROVED BY DATE		MOLEX INCORPORATED				
	1 PLACE $\pm$ ---	$\pm$ ---	ANGULAR $\pm$ ---		SEE CHART					

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A

CHART A				
DIMENSIONS MM. (INCHES)				
DIM. W (REF.)	DIMENSION S	NO. OF CONDUCTOR	ORDER NO.	ENGINEERING NO.
4.00 (.157)	2.00±0.08 (.079±.003)	2	82-24-4402	24472-02-100B
6.00 (.236)	4.00±0.15 (.157±.006)	3	03	-03-
8.00 (.315)	6.00±0.23 (.236±.009)	4	04	-04-
10.00 (.394)	8.00±0.28 (.315±.011)	5	05	-05-
12.00 (.472)	10.00±0.28 (.394±.011)	6	06	-06-
14.00 (.551)	12.00±0.28 (.472±.011)	7	07	-07-
16.00 (.630)	14.00±0.28 (.551±.011)	8	08	-08-
18.00 (.709)	16.00±0.28 (.630±.011)	9	09	-09-
20.00 (.787)	18.00±0.28 (.709±.011)	10	10	-10-
22.00 (.866)	20.00±0.28 (.787±.011)	11	11	-11-
24.00 (.945)	22.00±0.28 (.866±.011)	12	12	-12-
26.00 (1.024)	24.00±0.28 (.945±.011)	13	13	-13-
28.00 (1.102)	26.00±0.28 (1.024±.011)	14	14	-14-
30.00 (1.181)	28.00±0.28 (1.102±.011)	15	15	-15-
32.00 (1.260)	30.00±0.28 (1.181±.011)	16	16	-16-
34.00 (1.339)	32.00±0.28 (1.260±.011)	17	17	-17-
36.00 (1.417)	34.00±0.28 (1.339±.011)	18	18	-18-
38.00 (1.496)	36.00±0.28 (1.417±.011)	19	19	-19-
40.00 (1.575)	38.00±0.28 (1.496±.011)	20	20	-20-
42.00 (1.654)	40.00±0.28 (1.575±.011)	21	21	-21-
44.00 (1.732)	42.00±0.28 (1.654±.011)	22	22	-22-
46.00 (1.811)	44.00±0.28 (1.732±.011)	23	23	-23-
48.00 (1.890)	46.00±0.28 (1.811±.011)	24	24	-24-
50.00 (1.969)	48.00±0.28 (1.890±.011)	25	25	-25-
52.00 (2.047)	50.00±0.28 (1.969±.011)	26	26	-26-
54.00 (2.126)	52.00±0.28 (2.047±.011)	27	27	-27-
56.00 (2.205)	54.00±0.28 (2.126±.011)	28	82-24-4428	24472-28-100B

ENGINEERING NO.

24472-XX-XXXX  
 A B C D

- A : CABLE 2.00mm. (.079") CENTERS 24AWG STRANDED TOPCOATED
- B : CONDUCTOR SIZE ( AVAILABILITY 2 THROUGH 28 )
- C : CABLE LENGTH ( 100FT. )
- 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	QUALITY SYMBOLS 	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 2.00MM(.079)CENTERS PVC. 24AWG STRANDED TOPCOATED		
		4 PLACES ± ---	± ---	± ---	CHECKED BY PMEECHAI	DATE 2006/08/09	MOLEX INCORPORATED		
		3 PLACES ± ---	± ---	± ---	APPROVED BY SVIRATJAPOL	DATE 2006/08/09	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-24472-001	SHEET NO. 3 OF 3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR ± ---°		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					