

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

**Part Number:** [0082244418](#)  
**Status:** **Active**  
**Description:** 2.00mm (.079") Pitch Round Conductor Flat Cable - 24 AWG (7 x 32) Stranded, Topcoat, 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 [24472](#)  
 Crimp Quality Equipment Yes  
 Geographic Area Asia  
 Product Name Ribbon

**Physical**

Cable Length 30.48m (100.0' )  
 Circuits (Loaded) 18  
 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 24472-18-100B

**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](#)

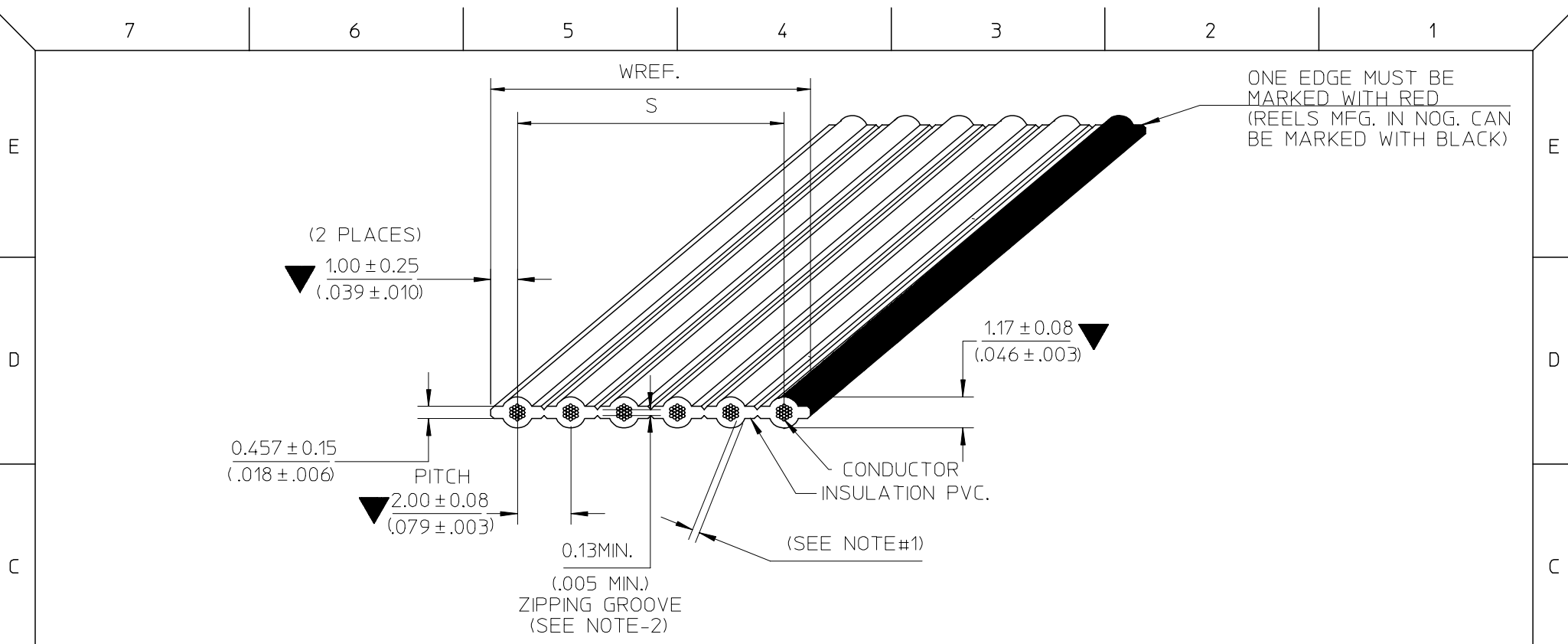
Please visit the [Contact Us](#) section for any non-product compliance questions.

**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.<br>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 |
| ▼=3             |
| ∇=0             |
| 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       |            |
| SIZE            |            |
| A/4             |            |

|   |              |                        |
|---|--------------|------------------------|
| SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |
| NTS   | INCH         |                        |
| TITLE   |              |                        |
| FCB ROUND CONDUCTOR<br>2.00MM(.079)CENTERS PVC.<br>24AWG STRANDED TOPCOATED   |              |                        |
| MOLEX INCORPORATED  |              |                        |
| MATERIAL NO.  | DOCUMENT NO. | SHEET NO.              |
| SEE CHART   | SD-24472-001 | 1 OF 3                 |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |

7 6 5 4 3 2 1

E

E

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

$\triangle B_2$  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  
 $\triangle B_1$  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<br>EC NO: THL2008-0015<br>DRWN: CPANSAKHOM 2007/11/28<br>CHKD: DNARINTARA 2007/11/29<br>APPR: SVIRATJAPOL 2007/12/04<br>REV | QUALITY SYMBOLS        | GENERAL TOLERANCES (UNLESS SPECIFIED) |   | DIMENSION STYLE |                    | SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION |  |
|   | $\blacktriangledown =$ | mm                                    | INCH  | MM/IN           |                    | NTS   | INCH         |                        |  |
|   | $\triangle C =$        | 4 PLACES $\pm$ ---                    | $\pm$ ---   | DRAWN BY        | DATE               | TITLE   |              |                        |  |
|   |                        | 3 PLACES $\pm$ ---                    | $\pm$ ---   | CPANSAKHOM      | 2006/08/09         | FCB ROUND CONDUCTOR<br>2.00MM(.079)CENTERS PVC.<br>24AWG STRANDED TOPCOATED |              |                        |  |
|   |                        | 2 PLACES $\pm$ ---                    | $\pm$ ---   | CHECKED BY      | DATE               |   |              |                        |  |
|   | 1 PLACE $\pm$ ---      | $\pm$ ---                             | PMEECHAI  | 2006/08/09      | MOLEX INCORPORATED |   |              |                        |  |
|   | ANGULAR $\pm$ ---      | $\pm$ ---                             | APPROVED BY   | DATE            | MATERIAL NO.       | DOCUMENT NO.  | SHEET NO.    |                        |  |
|   |                        |                                       | SVIRATJAPOL   | 2006/08/09      | SEE CHART          | SD-24472-001  | 2 OF 3       |                        |  |
|   |                        |                                       | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS  |                 |                    |   |              |                        |  |
|   |                        |                                       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                 |                    |   |              |                        |  |

6

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4

3

2

1

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<br>EC NO: THL2008-0015<br>DRWN: CPANSAKHOM 2007/11/28<br>CHKD: DNARINTARA 2007/11/29<br>APPR: SVIRATJAPOL 2007/12/04 | DESCRIPTION<br>REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED)  | DIMENSION STYLE   | SCALE   | DESIGN UNITS | THIRD ANGLE PROJECTION   |                     |  |                           |                              |
|  |                    | ▽ =<br>▽ =      | mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± ---<br>2 PLACES ± --- ± ---<br>1 PLACE ± --- ± ---<br>ANGULAR ± ---° | MM/IN<br>DRAWN BY DATE<br>CPANSAKHOM 2006/08/09<br>CHECKED BY DATE<br>PMEECHAI 2006/08/09<br>APPROVED BY DATE<br>SVIRATJAPOL 2006/08/09 | NTS<br>TITLE<br>FCB ROUND CONDUCTOR<br>2.00MM(.079)CENTERS PVC.<br>24AWG STRANDED TOPCOATED | INCH         | Molex MOLEX INCORPORATED | SHEET NO.<br>3 OF 3 |  |                           |                              |
|  |                    |                 |  |   |   |              |                          |                     | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS   | MATERIAL NO.<br>SEE CHART | DOCUMENT NO.<br>SD-24472-001 |
|  |                    |                 |  |   |   |              |                          |                     | SIZE<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                           |                              |