

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082248513](#)
Status: **Active**
Description: 2.50mm (.098") Pitch Round Conductor Flat Cable - 24 AWG (7 x 32) Stranded, Topcoat, 13 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 [24492](#)
 Crimp Quality Equipment Yes
 Geographic Area Asia
 Product Name Ribbon

Physical

Cable Length 30.48m (100.0')
 Circuits (Loaded) 13
 Insulation PVC
 Packaging Type Reel
 Pitch - Term. Interface (in) 0.098 In
 Pitch - Term. Interface (mm) 2.50 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 24492-13-100B

Reference - Drawing Numbers

Sales Drawing SD-24492-001



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
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

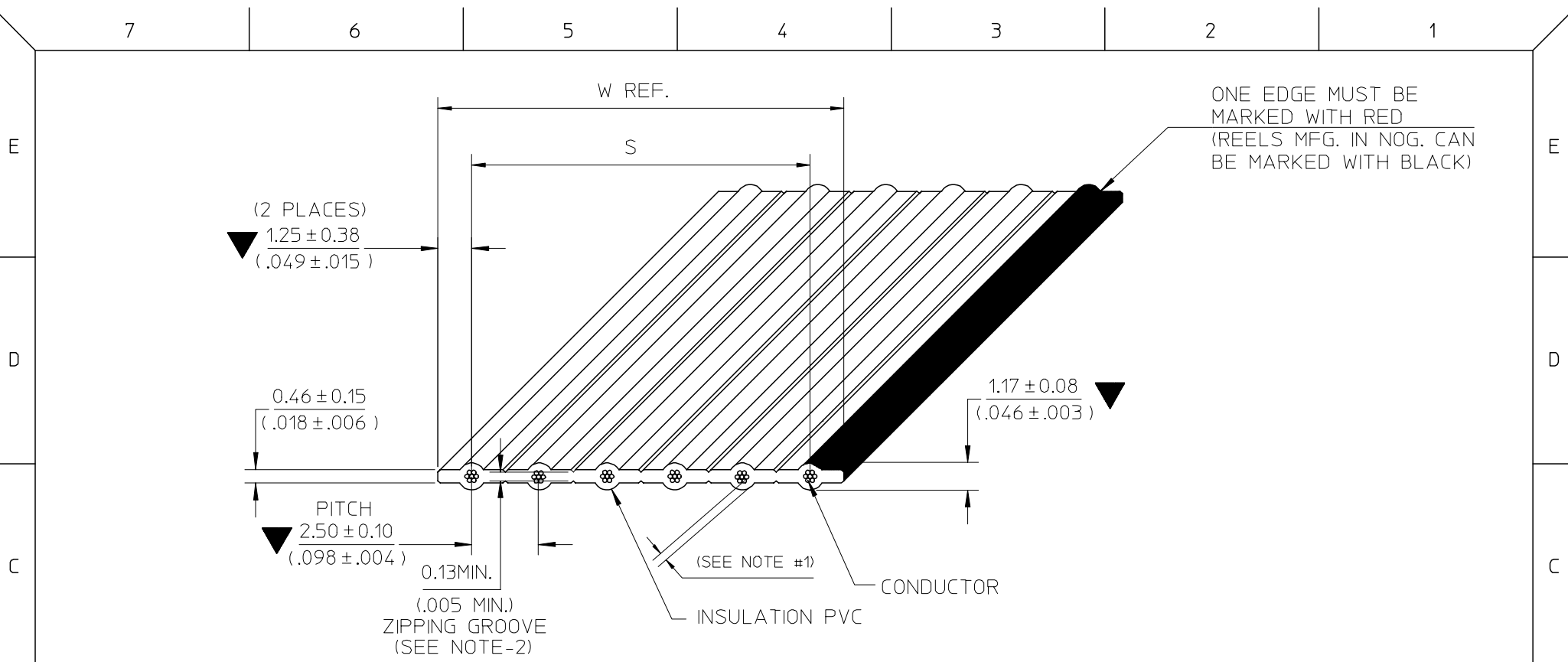
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[24492Series](#)

Use With

[42219 SPOX™ 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 | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | |
| | $\nabla=3$ $\nabla=0$ | mm | INCH | MM/IN | NTS | INCH | | |
| | | 4 PLACES \pm --- | \pm --- | DRAWN BY | DATE | TITLE | | |
| | | 3 PLACES \pm --- | \pm --- | CPANSAKHOM | 2006/07/12 | FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED | | |
| | 2 PLACES \pm --- | \pm --- | CHECKED BY | DATE | MATERIAL NO. | | SHEET NO. | |
| | 1 PLACE \pm --- | \pm --- | PMEECHAI | 2006/07/12 | SD-24492-001 | | 1 OF 3 | |
| | ANGULAR \pm --- | \pm --- | APPROVED BY | DATE | DOCUMENT NO. | | | |
| | | | SVIRATJAPOL | 2006/07/12 | MOLEX INCORPORATED | | | |
| | | | 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 | | | |

| | | | |
|--------------|-----------|--|----------|
| B | E-07-0748 | B ₂ : ADD NON-OPERATING TEMP. B ₃ : ADD SOLDERING CONDITION | 07/10/01 |
| A | N/A | INITIAL DRAFT | 06/07/12 |
| REV. HISTORY | EC NO. | DETAIL | DATE |

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 2.50(.098") Q_L TO Q_L
 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.) ----- 40.0 m OHMS/FT. MAX.
 CHARACTERISTIC IMPEDANCE ----- 133.8 OHMS NOM. (GS)
 113.7 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

Δ_B NON-OPERATING TEMPERATURE ----- -20°C TO 105°C
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 \pm ₁₀³ FT. (30.48 \pm ₁₀^{0.914} M.)/REEL
 20FT. (6.096M.) MIN. LENGTH

Δ_B SOLDERING CONDITION

SOLDER TEMPERATURE ----- 260°C. MAX.
 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 | DESCRIPTION REV | QUALITY SYMBOLS | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE | | SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION | | | |
| | | $\blacktriangledown =$ $\triangleleft =$ | mm | INCH | MM/IN | | NTS | INCH | DRAWN BY DATE CPANSAKHOM 2006/07/12 CHECKED BY DATE PMEECHAI 2006/07/12 APPROVED BY DATE SVIRATJAPOL 2006/07/12 MATERIAL NO. SEE CHART DOCUMENT NO. SD-24492-001 SHEET NO. 2 OF 3 | | | |
| | | | 4 PLACES \pm ---- | \pm ---- | DRAWN BY DATE | | TITLE | | | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | ANGULAR \pm ---- | | MATERIAL NO. | | DOCUMENT NO. | | MOLEX INCORPORATED FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED | | |
| | | | | | | SIZE | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

| CHART "A" | | | | SHIPPED ON | |
|------------------------|--------------|-------------------------|---------------|-----------------|------------|
| DIMENSION MM. (INCHES) | | | | 100FT. REELS | |
| ENG. NO | NO. OF COND. | DIMENSION "S" | DIM. "W" REF. | ENGINEERING NO. | ORDER NO. |
| 24492-02 | 2 | 2.50±0.10 (.098±0.04) | 5.00 (.197) | 24492-02-100B | 82-24-8502 |
| 24492-03 | 3 | 5.00±0.20 (.197±0.08) | 7.50 (.295) | 24492-03-100B | 82-24-8503 |
| 24492-04 | 4 | 7.50±0.30 (.295±0.12) | 10.00 (.394) | 24492-04-100B | 82-24-8504 |
| 24492-05 | 5 | 10.00±0.33 (.394±0.13) | 12.50 (.492) | 24492-05-100B | 82-24-8505 |
| 24492-06 | 6 | 12.50±0.33 (.492±0.13) | 15.00 (.591) | 24492-06-100B | 82-24-8506 |
| 24492-07 | 7 | 15.00±0.33 (.591±0.13) | 17.50 (.689) | 24492-07-100B | 82-24-8507 |
| 24492-08 | 8 | 17.50±0.33 (.689±0.13) | 20.00 (.787) | 24492-08-100B | 82-24-8508 |
| 24492-09 | 9 | 20.00±0.33 (.787±0.13) | 22.50 (.886) | 24492-09-100B | 82-24-8509 |
| 24492-10 | 10 | 22.50±0.33 (.886±0.13) | 25.00 (.984) | 24492-10-100B | 82-24-8510 |
| 24492-11 | 11 | 25.00±0.33 (.984±0.13) | 27.50 (1.083) | 24492-11-100B | 82-24-8511 |
| 24492-12 | 12 | 27.50±0.33 (1.083±0.13) | 30.00 (1.181) | 24492-12-100B | 82-24-8512 |
| 24492-13 | 13 | 30.00±0.33 (1.181±0.13) | 32.50 (1.280) | 24492-13-100B | 82-24-8513 |
| 24492-14 | 14 | 32.50±0.33 (1.280±0.13) | 35.00 (1.378) | 24492-14-100B | 82-24-8514 |
| 24492-15 | 15 | 35.00±0.33 (1.378±0.13) | 37.50 (1.476) | 24492-15-100B | 82-24-8515 |
| 24492-16 | 16 | 37.50±0.33 (1.476±0.13) | 40.00 (1.575) | 24492-16-100B | 82-24-8516 |
| 24492-17 | 17 | 40.00±0.33 (1.575±0.13) | 42.50 (1.673) | 24492-17-100B | 82-24-8517 |
| 24492-18 | 18 | 42.50±0.33 (1.673±0.13) | 45.00 (1.772) | 24492-18-100B | 82-24-8518 |
| 24492-19 | 19 | 45.00±0.33 (1.772±0.13) | 47.50 (1.870) | 24492-19-100B | 82-24-8519 |
| 24492-20 | 20 | 47.50±0.33 (1.870±0.13) | 50.00 (1.969) | 24492-20-100B | 82-24-8520 |
| 24492-21 | 21 | 50.00±0.33 (1.969±0.13) | 52.50 (2.067) | 24492-21-100B | 82-24-8521 |
| 24492-22 | 22 | 52.50±0.33 (2.067±0.13) | 55.00 (2.165) | 24492-22-100B | 82-24-8522 |
| 24492-23 | 23 | 55.00±0.33 (2.165±0.13) | 57.50 (2.264) | 24492-23-100B | 82-24-8523 |
| 24492-24 | 24 | 57.50±0.33 (2.264±0.13) | 60.00 (2.362) | 24492-24-100B | 82-24-8524 |

ENGINEERING NO.

24492-XX-XXXX

A B C D

A : CABLE 2.50mm. (.098") CENTERS 24AWG STRANDED TOPCOATED

B : CONDUCTOR SIZE (AVAILABILITY 2 THROUGH 24)

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

D : A = INCHES

B = FEET

| | | | | | | | | | |
|--|--------------------|---------------------|---------------------------------------|------------|--------------------|------------|--------------|------------------------|--|
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| 1 PLACE | ± --- | ± --- | APPROVED BY | DATE | | | | | |
| ANGULAR ± ---° | | SVIRATJAPOL | | 2006/07/12 | DOCUMENT NO. | SHEET NO. | | | |
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