

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082248506](#)
Status: **Active**
Description: 2.50mm (.098") Pitch Round Conductor Flat Cable - 24 AWG (7 x 32) Stranded, Topcoat, 6 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) 6
 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 24492-06-100B

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](#)

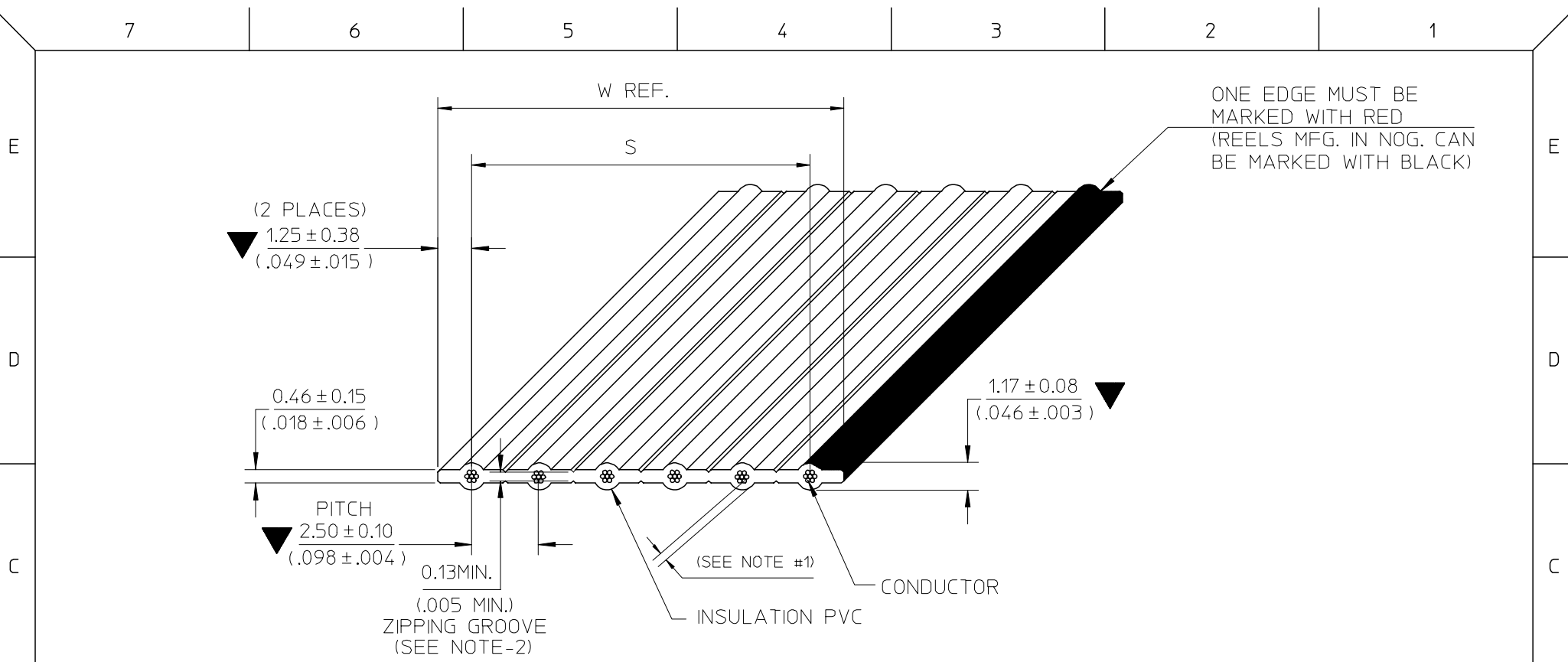
Please visit the [Contact Us](#) section for any non-product compliance questions.

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

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

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	2006/07/12
CHECKED BY	DATE
PMEECHAI	2006/07/12
APPROVED BY	DATE
SVIRATJAPOL	2006/07/12
MATERIAL NO.	
SEE CHART	
SIZE	
A/4	

SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
TITLE		
FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED		
MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE CHART	SD-24492-001	1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

E

E

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^3_{-0} FT. (30.48 $\pm^{0.914}_{-0}$ 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

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	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	TITLE	FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED	
			4 PLACES \pm ----	\pm ----							
		3 PLACES \pm ----	\pm ----	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE CHART			
		2 PLACES \pm ----	\pm ----			SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
1 PLACE \pm ----	\pm ----			ANGULAR \pm ----°							

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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		= =	mm	INCH	MM/IN	NTS	INCH	
			4 PLACES ± ---	± ---	DRAWN BY	DATE	TITLE	
		REV	REV	1 PLACE ± ---	± ---	CPANSAKHOM	2006/07/12	FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED
		ANGULAR ± ---°	± ---°	CHECKED BY	DATE	MOLEX INCORPORATED		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		PMEECHAI	2006/07/12		SD-24492-001	
				APPROVED BY	DATE	SHEET NO.		
				SVIRATJAPOL	2006/07/12	3 OF 3		
				MATERIAL NO.	SEE CHART	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		