

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

**Part Number:** [0082248520](#)  
**Status:** **Active**  
**Description:** 2.50mm (.098") 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 [24492](#)  
 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) 0.098 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 24492-20-100B

**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](mailto:productcompliance@molex.com)  
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

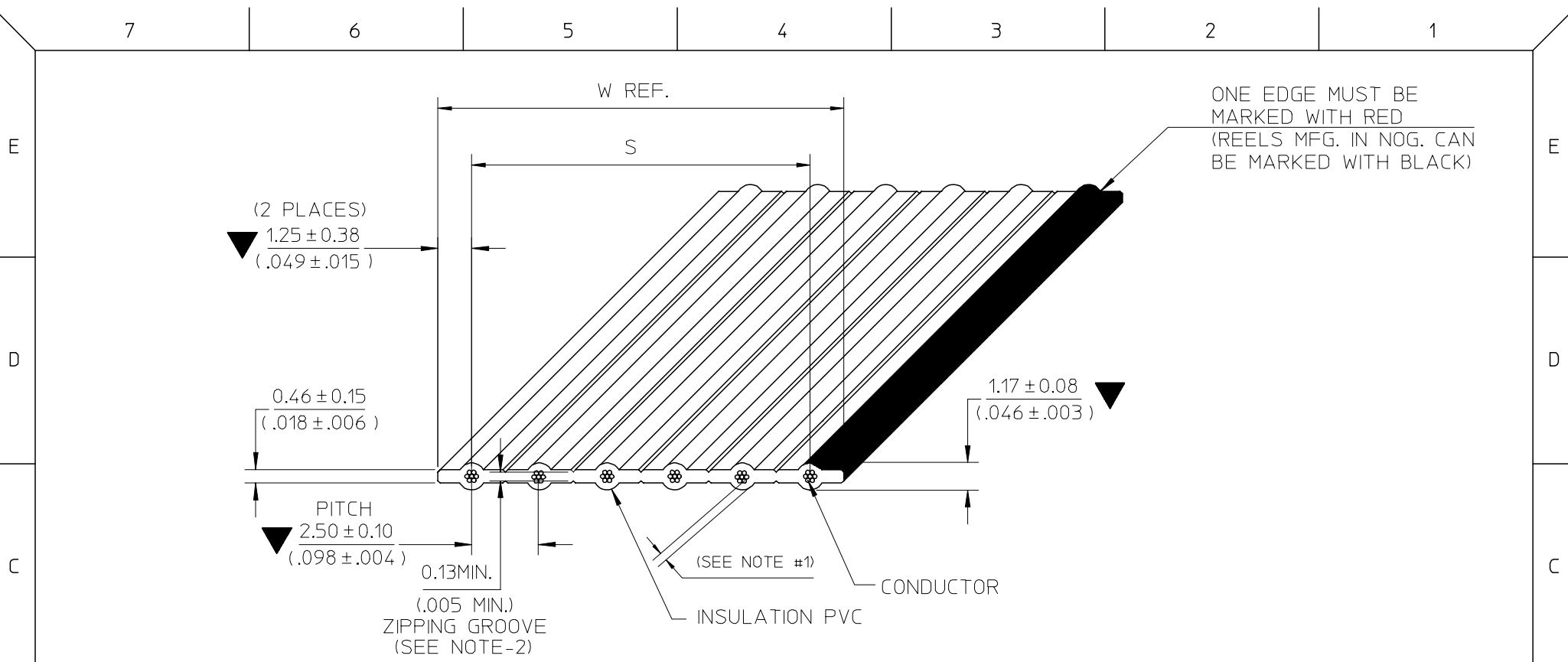
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[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 <sub>2</sub> : ADD NON-OPERATING TEMP. B <sub>3</sub> : 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	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	INCH	
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		

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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

$\Delta_B$  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

$\Delta_B$  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 MATERIAL NO. SEE CHART DOCUMENT NO. SD-24492-001 SHEET NO. 2 OF 3				
			4 PLACES $\pm$ ----	$\pm$ ----			TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED MOLEX INCORPORATED					
			3 PLACES $\pm$ ----	$\pm$ ----								
			2 PLACES $\pm$ ----	$\pm$ ----								
1 PLACE $\pm$ ----	$\pm$ ----											
		ANGULAR $\pm$ ----										
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE $\Delta_4$		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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			4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	ANGULAR ± ---°			MOLEX MOLEX INCORPORATED
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.	DOCUMENT NO.	SHEET NO.			
					SEE CHART	SD-24492-001	3 OF 3			
			SIZE A4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						