

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

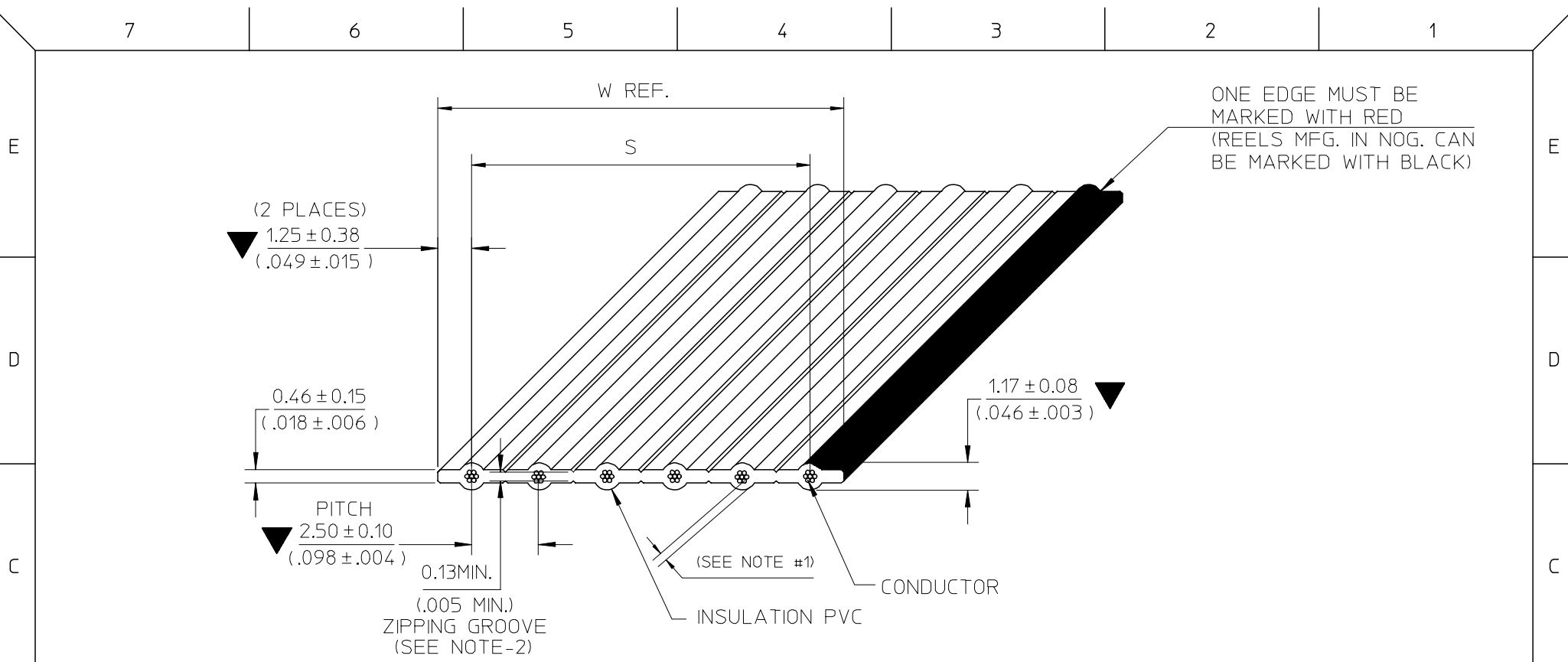
Please visit the [Contact Us](#) section for any non-product compliance questions.

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	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		

E

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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

Δ_B NON-OPERATING TEMPERATURE ----- -20°C TO 105°C
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 \pm^3_{-10} 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			
		$\blacktriangledown =$ $\triangle =$	mm	INCH	MM/IN	NTS	INCH	DRAWN BY CPANSAKHOM DATE 2006/07/12 CHECKED BY PREECHAI DATE 2006/07/12 APPROVED BY SVIRATJAPOL DATE 2006/07/12 MATERIAL NO. SEE CHART DOCUMENT NO. SD-24492-001 SHEET NO. 2 OF 3				
			4 PLACES	\pm ----	\pm ----							
			3 PLACES	\pm ----	\pm ----							
			2 PLACES	\pm ----	\pm ----							
1 PLACE	\pm ----	\pm ----				TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED MOLEX INCORPORATED						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		ANGULAR \pm ----°		SIZE Δ_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

SEE CHANGE DETAIL EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04	DESCRIPTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
				mm	INCH	MM/IN	NTS		INCH	
			4 PLACES	± ---	± ---	DRAWN BY	DATE		TITLE	
			3 PLACES	± ---	± ---	CPANSAKHOM	2006/07/12		FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED	
	2 PLACES	± ---	± ---	CHECKED BY	DATE					
	1 PLACE	± ---	± ---	PMEECHA I	2006/07/12					
	ANGULAR ± ---°		APPROVED BY	DATE	MOLEX		MOLEX INCORPORATED			
			SVIRATJAPOL	2006/07/12	DOCUMENT NO.		SD-24492-001			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE CHART		SHEET NO.			
							3 OF 3			
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			A 4							