

- 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

PRODUCT APPLICATION	
<input checked="" type="checkbox"/>	GENERAL USE
<input type="checkbox"/>	AUTOMOTIVE
<input type="checkbox"/>	MEDICAL DEVICE

SEE CHANGE DETAIL EC NO: THL2011-0054 DRWN: CPANSAKHOM 2010/10/08 CHKD: PMEECHAI 2011/01/25 APPR: SVIRAT JAPOL 2011/03/31	QUALITY SYMBOLS $\blacktriangledown = 3$ $\triangleleft = 0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY CPANSAKHOM	DATE 2006/07/12	TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED			
		4 PLACES $\pm$ --- $\pm$ ---		3 PLACES $\pm$ --- $\pm$ ---		CHECKED BY PMEECHAI		DATE 2006/07/12		MOLEX MOLEX INCORPORATED	
		2 PLACES $\pm$ --- $\pm$ ---		1 PLACE $\pm$ --- $\pm$ ---		APPROVED BY SVIRAT JAPOL		DATE 2006/07/12		DOCUMENT NO. SD-24492-001	
ANGULAR $\pm$ --- °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE CHART		SHEET NO. 1 OF 3				
REV. HISTORY		REV		SIZE A4		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

## SPECIFICATIONS

## PHYSICAL

CONDUCTOR SPACING ----- .250(.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.) ----- 27 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ----- 133 OHMS NOM. (GS)  
 113 OHMS NOM. (GSG)  
 CAPACITANCE ----- 6.6 pF/FT. NOM. (GS)  
 11.8 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.  
 INSULATION RESISTANCE ----- 10M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

## GENERAL

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

## SOLDERING CONDITION

SOLDER TEMPERATURE ----- 260°C. MAX.  
 SOLDERING TIME ----- 3 SECOND, MAX.  
 INSULATION SHRINK ----- 2MM. NOM

SEE CHANGE DETAIL EC NO: THL2011-0054 DRWN: CPANSAKHOM 2010/10/08 CHKD: PMEECHAI 2011/01/25 APPR: SVIRAT JAPOL 2011/03/31	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
		 =  =		mm	INCH	DRAWN BY	DATE	TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED				
			4 PLACES	± ---	± ---	CPANSAKHOM	2006/07/12					
			3 PLACES	± ---	± ---	CHECKED BY	DATE					
			2 PLACES	± ---	± ---	PMEECHAI	2006/07/12					
	1 PLACE	± ---	± ---	APPROVED BY	DATE	molex MOLEX INCORPORATED DOCUMENT NO. SD-24492-001 SHEET NO. 2 OF 3						
	ANGULAR	± ---°	SVIRAT JAPOL	2006/07/12								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE CHART							
B1				SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

6

5

4

3

2

1

7

6

5

4

3

2

1

CHART "A"				SHIPPED ON 100FT. REELS	
DIMENSION MM. (INCHES)				ENGINEERING NO.	ORDER NO.
ENG. NO	NO. OF COND.	DIMENSION "S"	DIM. "W" REF.		
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: THL2011-0054 DRWN: CPANSAKHOM 2010/10/08 CHKD: PMEECHAI 2011/01/25 APPR: SVIRAT JAPOL 2011/03/31	QUALITY SYMBOLS ▽ = ▽ =	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN	SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	DRAWN BY CPANSAKHOM	DATE 2006/07/12	TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 24AWG STR TOPCOATED		
		2 PLACES ± --- ± ---	1 PLACE ± --- ± ---	CHECKED BY PMEECHAI	DATE 2006/07/12	MOLEX INCORPORATED		
		ANGULAR ± ---°		APPROVED BY SVIRAT JAPOL	DATE 2006/07/12	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-24492-001	SHEET NO. 3 OF 3
B1	REV	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

5

4

3

2

1