

7

6

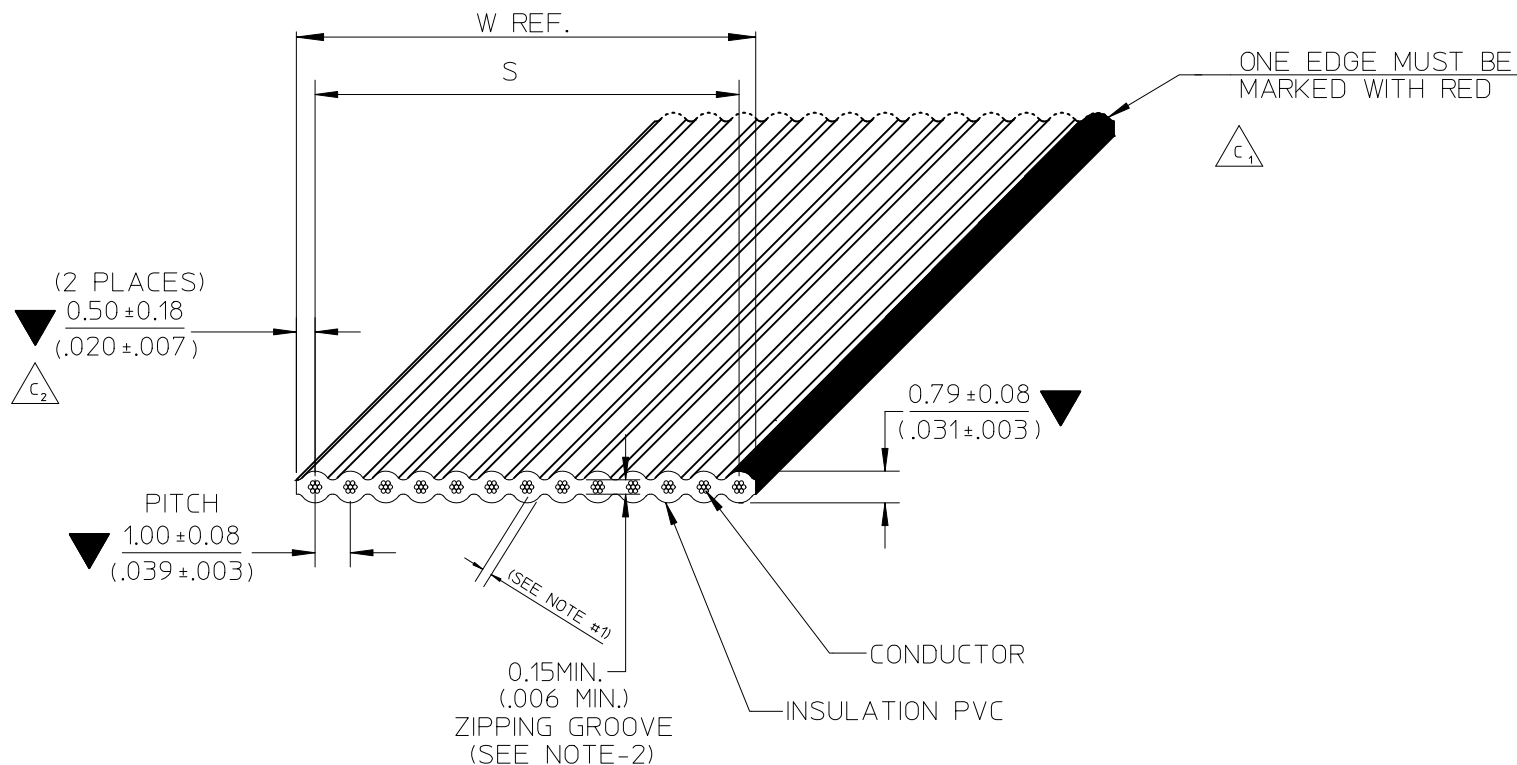
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2

1



- NOTE :**
1. THE CABLE SHALL HAVE A MINIMUM OF 0.178mm. (.007") THICKNESS INSULATION AT ANY POINT
 2. RIP TEST:
 - THE 0.15mm. (.006") 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	
☒	GENERAL USE
☐	AUTOMOTIVE
☐	MEDICAL DEVICE

C	E-10-0371	C ₃ : ADD ELECTRICAL SPEC.	2011/01/25
		C ₂ : CHANGE DIMENSION.	
		C ₁ : REMOVE REELS MFG. IN NOG.	
B	E-07-0748	B ₁ : ADD NON-OPERATING TEMP.	2007/11/22
A	N/A	NEW RELEASE.	2006/07/10
REV. HISTORY	EC NO.	DETAIL	DATE

SEE CHANGE DETAIL.
 EC NO: THL2011-0054
 DRWN: CPANSAKHOM 2010/11/15
 CHKD: PMEECHAI 2011/01/25
 APPR: SVIRAT JAPOL 2011/03/31

QUALITY SYMBOLS
 ▼=3
 △=0

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	2006/07/10
CHECKED BY	DATE
PMEECHAI	2006/07/10
APPROVED BY	DATE
SVIRAT JAPOL	2006/07/10

MATERIAL NO.

SEE CHART

SIZE
 A 4

SCALE
 NTS

DESIGN UNITS
 INCH

THIRD ANGLE PROJECTION

TITLE
 FCB ROUND CONDUCTOR
 1.00MM(.039)CENTERS PVC.
 28AWG STR TINNED

MOLEX INCORPORATED

DOCUMENT NO.

SD-24500-001

SHEET NO.

1 OF 3

6

5

4

3

2

1

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING _____ 1.00(.039") ϕ TO ϕ
WIRE GAUGE _____ 28 AWG(7/36) STRANDED TINNED
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.)	68 m OHMS/FT. MAX.
CHARACTERISTIC IMPEDANCE	112 OHMS NOM. (GS) 83 OHMS NOM. (GSG)
CAPACITANCE	11.8 pF/FT. NOM. (GS) 18.3 pF/FT. NOM. (GSG)
PROPAGATION DELAY	1.4 ns/FT. NOM.
INSULATION RESISTANCE	10M OHMS (10FT. SAMPLE)
DIELECTRIC WITHSTAND VOLTAGE	1500 VRMS/MINUTE

GENERAL

NON-OPERATING TEMPERATURE _____ -20°C TO 105°C
 FAULTS AND/OR SPLICES _____ 1/REEL MAX. 100⁺³₀ FT. (30.48^{+0.914}₀ M.)/REEL
 20FT. (6.096M.) MIN. LENGTH

SEE CHANGE DETAIL. EC NO: THL2011-0054 DRAWN:CPANSAKHOM 2010/11/15 CHKD:PWEECHAI 2011/01/25 APPR:SVIRAT JAPOL 2011/03/31	DESIGNATION	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 1.00MM(.039)CENTERS PVC. 28AWG STR TINNED  MOLEX INCORPORATED						
			4 PLACES	± ---	± ---	CPANSAKHOM	2006/07/10							
			3 PLACES	± ---	± ---	CHECKED BY	DATE							
			2 PLACES	± ---	± ---	PWEECHAI	2006/07/10							
			1 PLACE	± ---	± ---	APPROVED BY	DATE							
		ANGULAR ± ---°			SVIRAT JAPOL	2006/07/10	DOCUMENT NO. SD-24500-001					SHEET NO. 2 OF 3		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS												MATERIAL NO. SEE CHART
							SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						
							A 4							
REV														

CHART A				
DIMENSIONS MM. (INCHES)				
ENGINEERING NO.	ORDER NO.	NO. OF CONDUCTOR	DIMENSION S	DIM. W (REF.)
24500-10-100B	82-28-3010	10	9.00±0.18 (.354±.007)	10.00 (.394)
↑ -20- ↑	↑ 20	20	19.00±0.23 (.748±.009)	20.00 (.787)
↑ -24- ↑	↑ 24	24	23.00±0.23 (.906±.009)	24.00 (.945)
↑ -26- ↑	↑ 26	26	25.00±0.23 (.984±.009)	26.00 (1.024)
↑ -30- ↑	↑ 30	30	29.00±0.28 (1.142±.011)	30.00 (1.181)
↑ -34- ↑	↑ 34	34	33.00±0.28 (1.299±.011)	34.00 (1.339)
↑ -40- ↑	↑ 40	40	39.00±0.28 (1.535±.011)	40.00 (1.575)
↑ -44- ↑	↑ 44	44	43.00±0.28 (1.693±.011)	44.00 (1.732)
24500-50-100B	82-28-3050	50	49.00±0.28 (1.929±.011)	50.00 (1.969)

ENGINEERING NO.

24500-XX-XXXX

A B C D

A : CABLE 1.00mm. (.039") CENTERS 28AWG STRANDED TINNED

B : CONDUCTOR SIZE (AVAILABILITY 10,20,24,26,30,34,40,44 AND 50)

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

D : A = INCHES

B = FEET

SEE CHANGE DETAIL. EC NO: THL2011-0054 DRWN:CPANSAKHOM 2010/11/15 CHKD:PMEECHAI 2011/01/25 APPR:SVIRATJAPOL 2011/03/31	QUALITY SYMBOLS ▽ = ▽ =	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
			4 PLACES 3 PLACES 2 PLACES 1 PLACE	mm	INCH	DRAWN BY CPANSAKHOM	DATE 2006/07/10	TITLE FCB ROUND CONDUCTOR 1.00MM(.039)CENTERS PVC. 28AWG STR TINNED	molex	MOLEX INCORPORATED			
				± ---	± ---	CHECKED BY PMEECHAI	DATE 2006/07/10						
				± ---	± ---	APPROVED BY SVIRATJAPOL	DATE 2006/07/10						
				± ---	± ---	ANGULAR ± ---°							
				± ---	± ---	MATERIAL NO.							
			C	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART			DOCUMENT NO. SD-24500-001		SHEET NO. 3 OF 3		
						SIZE A 4	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						