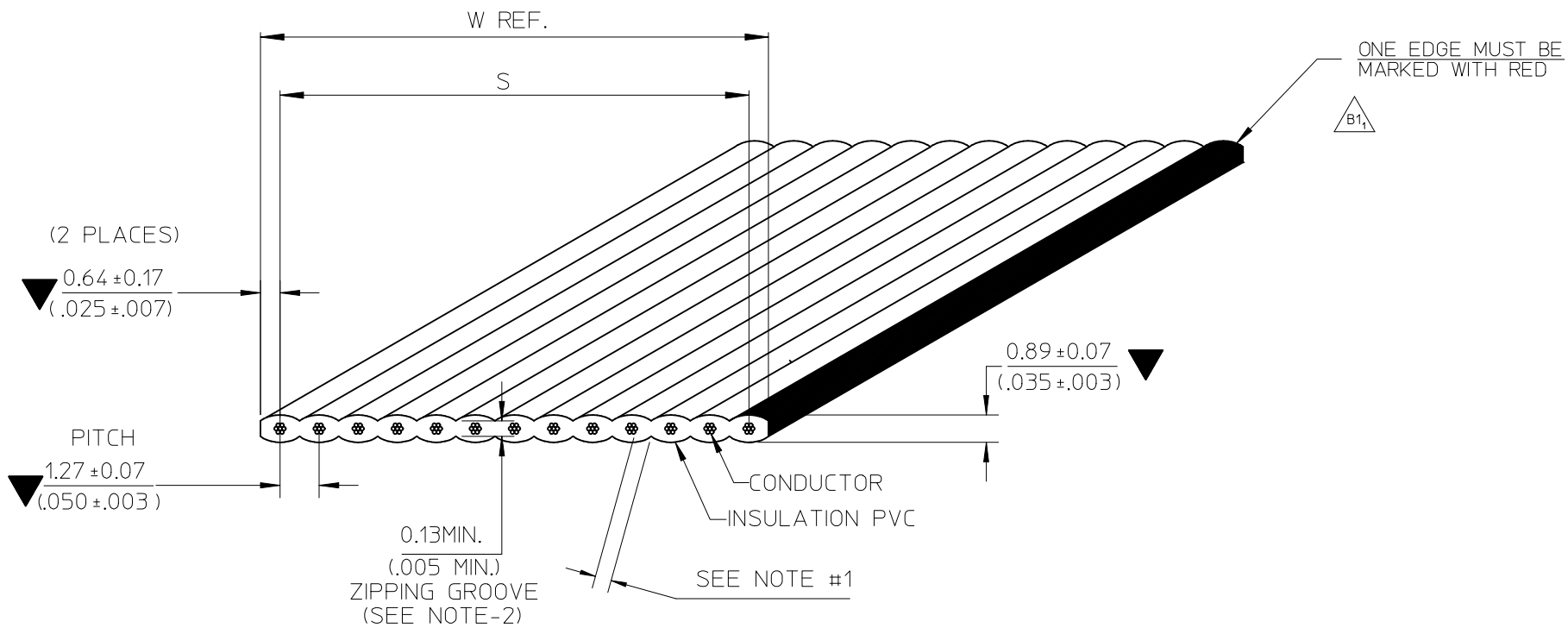


7 6 5 4 3 2 1



- 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 2010/10/07  
 CHKD: PREECHAI 2011/01/25  
 APPR: SVIRAT JAPOL 2011/03/31

QUALITY SYMBOLS
$\nabla=3$
$\nabla=0$

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm
4 PLACES	$\pm .005$
3 PLACES	$\pm .004$
2 PLACES	$\pm .003$
1 PLACE	$\pm .002$
ANGULAR $\pm .005^\circ$	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM/IN	
DRAWN BY	DATE
CPANSAKHOM	2006/07/12
CHECKED BY	DATE
PREECHAI	2006/07/12
APPROVED BY	DATE
SVIRAT JAPOL	2006/07/12
MATERIAL NO.	
SEE CHART	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	INCH	
TITLE		
FCB ROUND CONDUCTOR 1.27MM(.050)CENTERS PVC. 28AWG STR TOPCOATED		
molex MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-40158-001		1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

REV.	EC NO.	DETAIL	DATE
B1	E-10-0371	B1 <sub>1</sub> : REMOVE REELS MFG. IN NOG.	2011/01/25
B	E-07-0748	B2: ADD NON-OPERATING TEMP. B4: ADD SOLDERING CONDITION	2007/10/02
A	N/A	NEW RELEASE	2006/07/12

6 5 4 3 2 1

7

6

5

4

3

2

1

SPECIFICATIONSPHYSICAL

CONDUCTOR SPACING ----- .127 (.050")  $\text{C}$  TO  $\text{C}$   
 WIRE GAUGE ----- .28 AWG(7/36) AWG, 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.) ----- .68 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ----- .123 OHMS NOM. (GS)  
 100 OHMS NOM. (GSG)  
 CAPACITANCE ----- .9.1 pF/FT. NOM. (GS)  
 17.0 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY ----- .1.4 ns/FT. NOM.  
 INSULATION RESISTANCE ----- .10M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE ----- .2000 VRMS/MINUTE

GENERAL

NON-OPERATING TEMPERATURE ----- -20°C TO 105°C  
 FAULTS AND/OR SPLICES ----- .1/REEL MAX. 100  $\frac{+3}{0}$  FT. (30.48  $\frac{+0.914}{0}$  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 2010/10/07 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			
		 =  =	4 PLACES $\pm$ --- $\pm$ ---	mm	INCH	DRAWN BY CPANSAKHOM	DATE 2006/07/12	TITLE <b>FCB ROUND CONDUCTOR          1.27MM(.050)CENTERS PVC.          28AWG STR TOPCOATED</b>			
			3 PLACES $\pm$ --- $\pm$ ---			CHECKED BY PMEECHAI	DATE 2006/07/12				
			2 PLACES $\pm$ --- $\pm$ ---			APPROVED BY SVIRAT JAPOL	DATE 2006/07/12	 <b>MOLEX INCORPORATED</b> DOCUMENT NO. SD-40158-001 SHEET NO. 2 OF 3			
			1 PLACE $\pm$ --- $\pm$ ---			MATERIAL NO.					
		ANGULAR $\pm$ --- °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART					

6

5

4

3

2

1

ENGINEERING NO.  
40158-XX-XXXX  
 A  $\frac{B}{C} \frac{D}{D}$   
 A : CABLE 1.27mm. (.050") CENTERS 28AWG STRANDED TOPCOATED  
 B : CONDUCTOR SIZE ( AVAILABILITY 3 THROUGH 50 )  
 C : CABLE LENGTH 100FT. (30.48M.)  
 D : A = INCHES  
 B = FEET

CHART A  
 DIMENSIONS MM (INCHES)

ENG. NO.	NO.OF COND.	DIMENSION S	DIM. W (REF)	ENGINEERING NO.	ORDER NO.
40158-3	3	2.54±0.18 (100±.007)	3.81 (150)	40158-03-1008	82-28-5503
40158-4	4	3.81±0.18 (150±.007)	5.08 (200)	40158-04-1008	82-28-5504
40158-5	5	5.08±0.18 (200±.007)	6.35 (250)	40158-05-1008	82-28-5505
40158-6	6	6.35±0.18 (250±.007)	7.62 (300)	40158-06-1008	82-28-5506
40158-7	7	7.62±0.18 (300±.007)	8.89 (350)	40158-07-1008	82-28-5507
40158-8	8	8.89±0.18 (350±.007)	10.16 (400)	40158-08-1008	82-28-5508
40158-9	9	10.16±0.18 (400±.007)	11.43 (450)	40158-09-1008	82-28-5509
40158-10	10	11.43±0.18 (450±.007)	12.70 (500)	40158-10-1008	82-28-5510
40158-11	11	12.70±0.18 (500±.007)	13.97 (550)	40158-11-1008	82-28-5511
40158-12	12	13.97±0.18 (550±.007)	15.24 (600)	40158-12-1008	82-28-5512
40158-13	13	15.24±0.18 (600±.007)	16.51 (650)	40158-13-1008	82-28-5513
40158-14	14	16.51±0.18 (650±.007)	17.78 (700)	40158-14-1008	82-28-5514
40158-15	15	17.78±0.18 (700±.007)	19.05 (750)	40158-15-1008	82-28-5515
40158-16	16	19.05±0.23 (750±.009)	20.32 (800)	40158-16-1008	82-28-5516
40158-17	17	20.32±0.23 (800±.009)	21.59 (850)	40158-17-1008	82-28-5517
40158-18	18	21.59±0.23 (850±.009)	22.86 (900)	40158-18-1008	82-28-5518
40158-19	19	22.86±0.23 (900±.009)	24.13 (950)	40158-19-1008	82-28-5519
40158-20	20	24.13±0.23 (950±.009)	25.40 (1000)	40158-20-1008	82-28-5520
40158-21	21	25.40±0.23 (1000±.009)	26.67 (1050)	40158-21-1008	82-28-5521
40158-22	22	26.67±0.23 (1050±.009)	27.94 (1100)	40158-22-1008	82-28-5522
40158-23	23	27.94±0.23 (1100±.009)	29.21 (1150)	40158-23-1008	82-28-5523
40158-24	24	29.21±0.23 (1150±.009)	30.48 (1200)	40158-24-1008	82-28-5524
40158-25	25	30.48±0.23 (1200±.009)	31.75 (1250)	40158-25-1008	82-28-5525
40158-26	26	31.75±0.23 (1250±.009)	33.02 (1300)	40158-26-1008	82-28-5526
40158-27	27	33.02±0.23 (1300±.009)	34.29 (1350)	40158-27-1008	82-28-5527
40158-28	28	34.29±0.23 (1350±.009)	35.56 (1400)	40158-28-1008	82-28-5528
40158-29	29	35.56±0.23 (1400±.009)	36.83 (1450)	40158-29-1008	82-28-5529
40158-30	30	36.83±0.23 (1450±.009)	38.10 (1500)	40158-30-1008	82-28-5530
40158-31	31	38.10±0.23 (1500±.009)	39.37 (1550)	40158-31-1008	82-28-5531
40158-32	32	39.37±0.23 (1550±.009)	40.64 (1600)	40158-32-1008	82-28-5532
40158-33	33	40.64±0.23 (1600±.009)	41.91 (1650)	40158-33-1008	82-28-5533
40158-34	34	41.91±0.23 (1650±.009)	43.18 (1700)	40158-34-1008	82-28-5534
40158-35	35	43.18±0.23 (1700±.009)	44.45 (1750)	40158-35-1008	82-28-5535
40158-36	36	44.45±0.23 (1750±.009)	45.72 (1800)	40158-36-1008	82-28-5536
40158-37	37	45.72±0.28 (1800±.011)	46.99 (1850)	40158-37-1008	82-28-5537
40158-38	38	46.99±0.28 (1850±.011)	48.26 (1900)	40158-38-1008	82-28-5538
40158-39	39	48.26±0.28 (1900±.011)	49.53 (1950)	40158-39-1008	82-28-5539
40158-40	40	49.53±0.28 (1950±.011)	50.80 (2000)	40158-40-1008	82-28-5540
40158-41	41	50.80±0.28 (2000±.011)	52.07 (2050)	40158-41-1008	82-28-5541
40158-42	42	52.07±0.28 (2050±.011)	53.34 (2100)	40158-42-1008	82-28-5542
40158-43	43	53.34±0.28 (2100±.011)	54.61 (2150)	40158-43-1008	82-28-5543
40158-44	44	54.61±0.28 (2150±.011)	55.88 (2200)	40158-44-1008	82-28-5544
40158-45	45	55.88±0.28 (2200±.011)	57.15 (2250)	40158-45-1008	82-28-5545
40158-46	46	57.15±0.28 (2250±.011)	58.42 (2300)	40158-46-1008	82-28-5546
40158-47	47	58.42±0.28 (2300±.011)	59.69 (2350)	40158-47-1008	82-28-5547
40158-48	48	59.69±0.28 (2350±.011)	60.96 (2400)	40158-48-1008	82-28-5548
40158-49	49	60.96±0.28 (2400±.011)	62.23 (2450)	40158-49-1008	82-28-5549
40158-50	50	62.23±0.28 (2450±.011)	63.50 (2500)	40158-50-1008	82-28-5550

THIRD ANGLE PROJECTION

DESIGN UNITS  
 INCH

SCALE  
 NTS

TITLE  
 FCB ROUND CONDUCTOR  
 1.27MM(.050)CENTERS PVC.  
 28AWG STR TOPCOATED

MOLEX INCORPORATED

DOCUMENT NO. SD-40158-001 SHEET NO. 3 OF 3

DIMENSION STYLE  
 MM/IN  
 DRAWN BY CPANSAKHOM DATE 2006/07/12  
 CHECKED BY PMEECHAI DATE 2006/07/12  
 APPROVED BY SVIRAT JAPOL DATE 2006/07/12

MATERIAL NO. SEE CHART  
 SIZE  $\frac{A}{4}$  THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± .005	± .0004
3 PLACES	± .004	± .0003
2 PLACES	± .003	± .0002
1 PLACE	± .002	± .0001
ANGULAR	± .005°	

DRAFT WHERE APPLICABLE  
 MUST REMAIN  
 WITHIN DIMENSIONS

QUALITY SYMBOLS

DESCRIPTION  
 REV

14/03/01/10/2 TAPOL JAPOL SVIRAT JAPOL  
 52/10/11/02 APPR:CPANSAKHOM  
 52/10/11/02 CHKD:PMEECHAI  
 07/01/10/02 DRWN:CPANSAKHOM  
 7505-00-1102 THL2011-01 ON CC  
 B1  
 SEE CHANGE DETAIL