

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

**Part Number:** [008226512](#)  
**Status:** **Active**  
**Description:** 2.50mm (.098") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34 ) Stranded, Topcoat, 12 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 [40160](#)  
 Crimp Quality Equipment Yes  
 Geographic Area Asia  
 Product Name Ribbon

**Physical**

Cable Length 30.48m (100.0' )  
 Circuits (Loaded) 12  
 Flammability VW-1  
 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 26  
 Wire/Cable Type (7x34) Stranded, Topcoat

**Electrical**

Current - Maximum per Contact N/A  
 Voltage - Maximum 300V

**Material Info**

Old Part Number 40160-12-100B

**Reference - Drawing Numbers**

Sales Drawing SD-40160-001



**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](#)

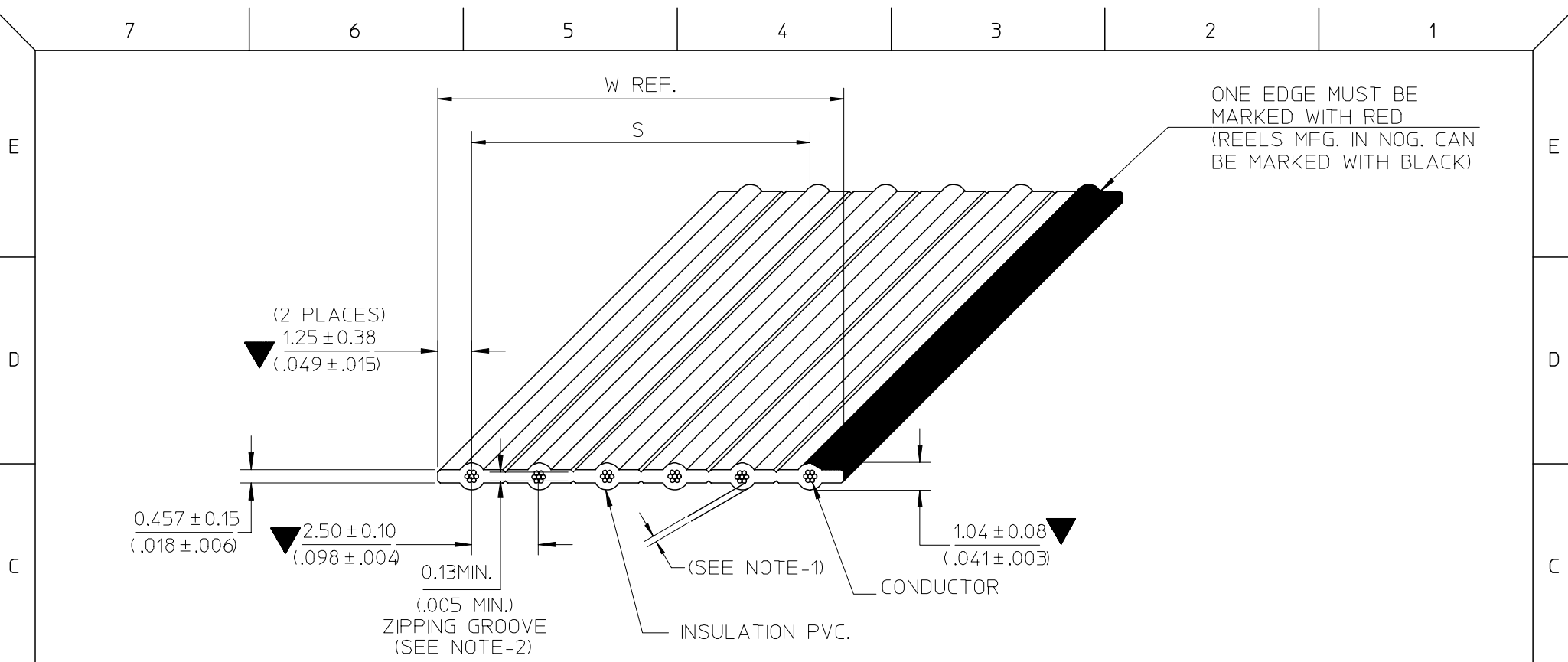
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[40160Series](#)

**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>1</sub> : ADD SOLDERING CONDITION	07/10/02
A	N/A	NEW RELEASE	06/07/13
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

	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	SCALE NTS
DRAWN BY CPANSAKHOM	DATE 2006/07/13
CHECKED BY PMEECHAI	DATE 2006/07/13
APPROVED BY SVIRATJAPOL	DATE 2006/07/13
MATERIAL NO.	SEE CHART

SCALE NTS	DESIGN UNITS	THIRD ANGLE PROJECTION
INCH		
TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 26AWG STR TOPCOATED		
MOLEX INCORPORATED		
DOCUMENT NO. SD-40160-001	SHEET NO. 1 OF 3	

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 2.50 (.098")  $\phi$  TO  $\phi$   
 WIRE GAUGE ----- 26 AWG(7/34) 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.) ----- 43 m OHMS/FT. MAX.  
 CHARACTERISTIC IMPEDANCE ----- 145 OHMS NOM. (GS)  
 123 OHMS NOM. (GSG)  
 CAPACITANCE ----- 5.6 pF/FT. NOM. (GS)  
 10.3 pF/FT. NOM. (GSG)  
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.  
 INSULATION RESISTANCE ----- 10M OHMS (10FT. SAMPLE)  
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

GENERAL

$\triangle B_A$  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

$\triangle B_A$  SOLDERING CONDITION

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



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		
		 =  =	mm	INCH	MM/IN	NTS	INCH	DRAWN BY CPANSAKHOM DATE 2006/07/13 CHECKED BY P MEECHAI DATE 2006/07/13 APPROVED BY SVIRATJAPOL DATE 2006/07/13 MATERIAL NO. SEE CHART DOCUMENT NO. SD-40160-001 SHEET NO. 2 OF 3		
			4 PLACES $\pm$ ----	$\pm$ ----						
				3 PLACES $\pm$ ----	$\pm$ ----					
		2 PLACES $\pm$ ----	$\pm$ ----							
		1 PLACE $\pm$ ----	$\pm$ ----							
		ANGULAR $\pm$ ----°								
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								
				SIZE $\triangle 4$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

CHART A				
DIMENSIONS MM. (INCHES)				
ENGINEERING NO.	ORDER NO.	NO. OF CONDUCTOR	DIMENSION S	DIM. W (REF.)
40160-02-100B	82-26-5502	2	2.50±0.10 (.098±.004)	5.00 (.197)
▲ -03- ▲	▲ 03	3	5.00±0.20 (.197±.008)	7.50 (.295)
-04-	04	4	7.50±0.30 (.295±.012)	10.00 (.394)
-05-	05	5	10.00±0.33 (.394±.013)	12.50 (.492)
-06-	06	6	12.50±0.33 (.492±.013)	15.00 (.591)
-07-	07	7	15.00±0.33 (.591±.013)	17.50 (.689)
-08-	08	8	17.50±0.33 (.689±.013)	20.00 (.787)
-09-	09	9	20.00±0.33 (.787±.013)	22.50 (.886)
-10-	10	10	22.50±0.33 (.886±.013)	25.00 (.984)
-11-	11	11	25.00±0.33 (.984±.013)	27.50 (1.083)
-12-	12	12	27.50±0.33 (1.083±.013)	30.00 (1.181)
-13-	13	13	30.00±0.33 (1.181±.013)	32.50 (1.280)
-14-	14	14	32.50±0.33 (1.280±.013)	35.00 (1.378)
-15-	15	15	35.00±0.33 (1.378±.013)	37.50 (1.476)
-16-	16	16	37.50±0.33 (1.476±.013)	40.00 (1.575)
-17-	17	17	40.00±0.33 (1.575±.013)	42.50 (1.673)
-18-	18	18	42.50±0.33 (1.673±.013)	45.00 (1.772)
-19-	19	19	45.00±0.33 (1.772±.013)	47.50 (1.870)
-20-	20	20	47.50±0.33 (1.870±.013)	50.00 (1.969)
-21-	21	21	50.00±0.33 (1.969±.013)	52.50 (2.067)
-22-	22	22	52.50±0.33 (2.067±.013)	55.00 (2.165)
▼ -23- ▼	▼ 23	23	55.00±0.33 (2.165±.013)	57.50 (2.264)
40160-24-100B	82-26-5524	24	57.50±0.33 (2.264±.013)	60.00 (2.362)

ENGINEERING NO.

40160-XX-XXXX

A B C D

A : CABLE 2.50mm. (.098") CENTERS 26AWG 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 ▲ = ▼ =	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
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		3 PLACES	± ---	± ---		APPROVED BY SVIRATJAPOL	DATE 2006/07/13				
		2 PLACES	± ---	± ---		MATERIAL NO. SEE CHART		DOCUMENT NO. SD-40160-001	SHEET NO. 3 OF 3		
1 PLACE	± ---	± ---		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS							
		ANGULAR ± ---°		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							