

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082265505](#)
Status: **Active**
Description: 2.50mm (.098") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34) Stranded, Topcoat, 5 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) 5
 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

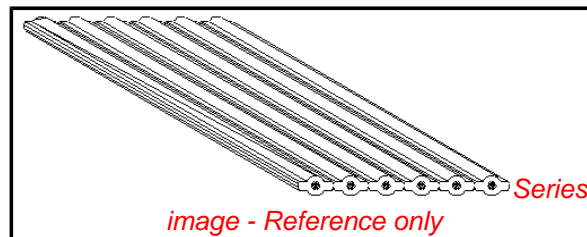
Current - Maximum per Contact N/A
 Voltage - Maximum 300V

Material Info

Old Part Number 40160-05-100B

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

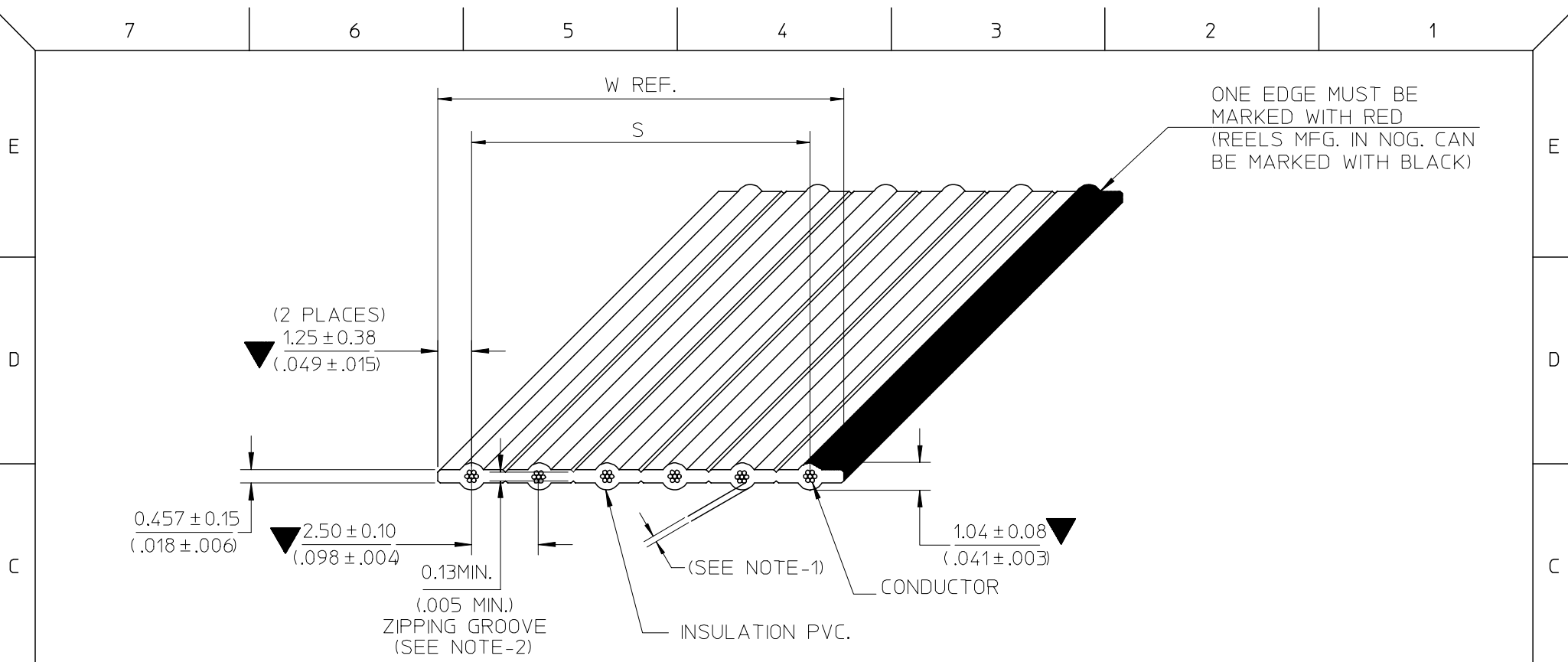
Please visit the [Contact Us](#) section for any non-product compliance questions.

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 ₂ : ADD NON-OPERATING TEMP. B ₁ : 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 |
| 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 | 2006/07/13 |
| CHECKED BY | DATE |
| PMEECHAI | 2006/07/13 |
| APPROVED BY | DATE |
| SVIRATJAPOL | 2006/07/13 |
| MATERIAL NO. | |
| SEE CHART | |
| SIZE | |
| A/4 | |

| | | |
|---|--------------|------------------------|
| SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| NTS | INCH | |
| TITLE | | |
| FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 26AWG STR TOPCOATED | | |
| MOLEX INCORPORATED | | |
| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
| SEE CHART | SD-40160-001 | 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") \bar{C} TO \bar{C}
 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

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 | | | |
| | | $\blacktriangledown =$ $\triangle C =$ | mm | INCH | MM/IN | NTS | INCH | DRAWN BY DATE CPANSAKHOM 2006/07/13 CHECKED BY DATE PMEECHAI 2006/07/13 APPROVED BY DATE SVIRATJAPOL 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 ---- | | | | TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 26AWG STR TOPCOATED MOLEX MOLEX INCORPORATED | | |
| | | | | 2 PLACES \pm ---- | \pm ---- | | | | | | |
| | | 1 PLACE \pm ---- | \pm ---- | | | | | | | | |
| | | | ANGULAR \pm ---- | | | | | | | | |
| | | | 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 | | | | | | |

| 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

| | | | | | | | | | | | |
|--|---------------------------|-----------------|-------|--|------|----------------------------|--------------------|---|----------------------|------------------------|--|
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| | | | | mm | INCH | DRAWN BY CPANSAKHOM | DATE 2006/07/13 | TITLE FCB ROUND CONDUCTOR 2.50MM(.098)CENTERS PVC. 26AWG STR TOPCOATED | | | |
| | | 4 PLACES | ± --- | ± --- | | CHECKED BY PMEECHAI | DATE 2006/07/13 | MOLEX INCORPORATED | | | |
| | | 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 | | | | | | | |