

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION

**Part Number:** [0082285818](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded, Tinned, 18 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                  | <a href="#">7307</a> |
| Crimp Quality Equipment | Yes                  |
| Geographic Area         | Asia                 |
| Product Name            | Ribbon               |

**Physical**

|                               |                         |
|-------------------------------|-------------------------|
| Cable Length                  | 30.48m (100.0' )        |
| Circuits (Loaded)             | 18                      |
| Insulation                    | PVC                     |
| Packaging Type                | Reel                    |
| Pitch - Term. Interface (in)  | 0.100 In                |
| Pitch - Term. Interface (mm)  | 2.54 mm                 |
| Temperature Range - Operating | -20°C to +105°C         |
| Wire Size AWG                 | 28                      |
| Wire/Cable Type               | (7x36) Stranded, Tinned |

**Electrical**

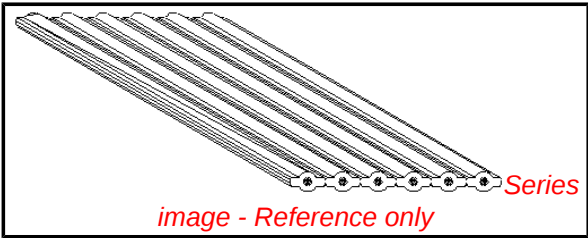
|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | N/A  |
| Voltage - Maximum             | 300V |

**Material Info**

|                 |              |
|-----------------|--------------|
| Old Part Number | 7307-18-100B |
|-----------------|--------------|

**Reference - Drawing Numbers**

|               |             |
|---------------|-------------|
| Sales Drawing | SD-7307-001 |
|---------------|-------------|



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Not Reviewed**  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**China RoHS**



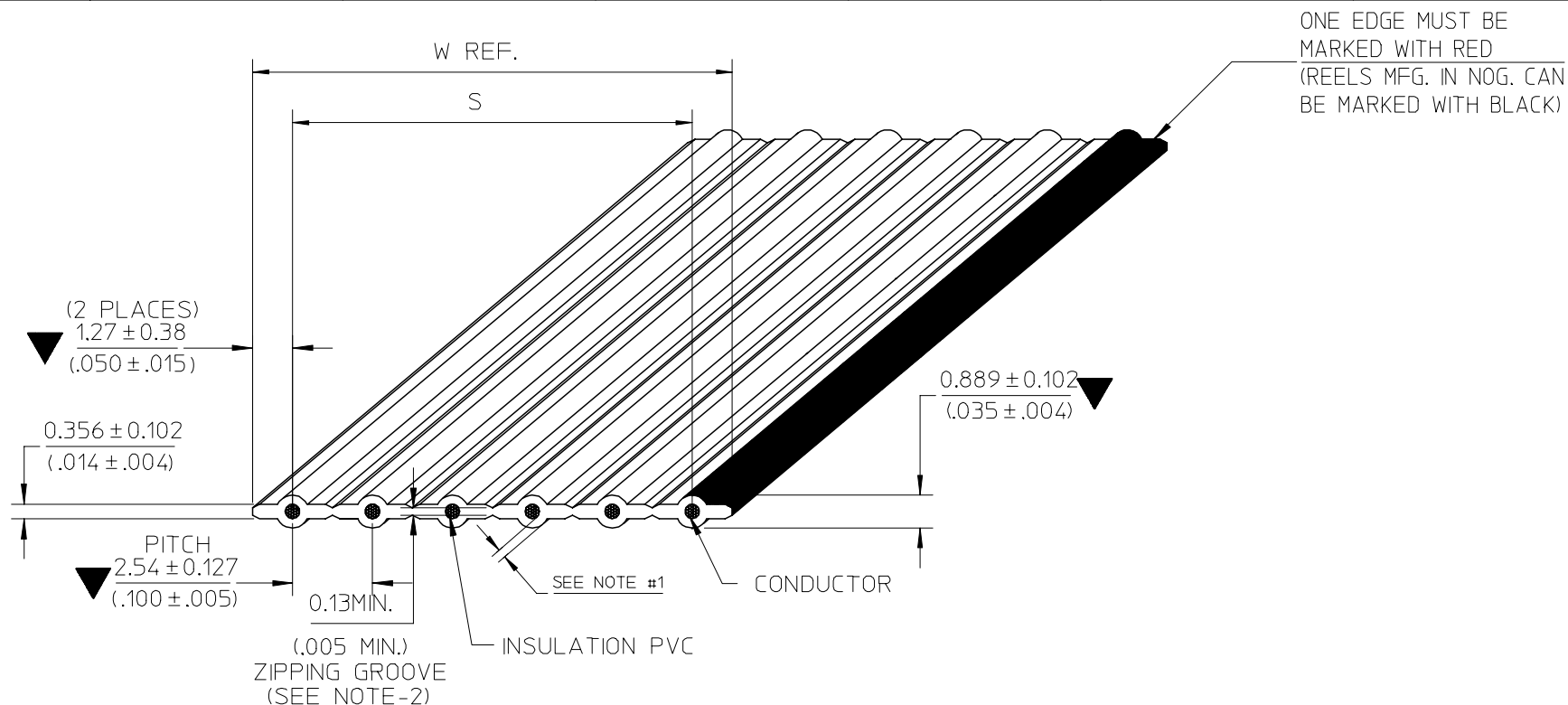
**Need more information on product environmental compliance?**

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**  
[7307Series](#)

**Use With**  
[70400](#) C-Grid SL™ IDT Connector Assembly.  
[70475](#) SL™ IDT Connector Assembly.  
[7720](#) KK® IDT Double Cantilever Contact



- 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>1</sub> : ADD NON-OPERATING TEMP. | 07/11/23 |
| A            | N/A       | NEW RELEASE.                             | 06/07/18 |
| 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 | DESCRIPTION |
|-----------------|-------------|
| ▽=3             |             |
| ▽=0             |             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |       |
|------------------------------------------------------|-------|
|                                                      | mm    |
| 4 PLACES                                             | ± --- |
| 3 PLACES                                             | ± --- |
| 2 PLACES                                             | ± --- |
| 1 PLACE                                              | ± --- |
| ANGULAR ± ---°                                       |       |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |       |

| DIMENSION STYLE |            |
|-----------------|------------|
| MM/IN           |            |
| DRAWN BY        | DATE       |
| CPANSAKHOM      | 2006/07/18 |
| CHECKED BY      | DATE       |
| PMEECHAI        | 2006/07/18 |
| APPROVED BY     | DATE       |
| SVIRATJAPOL     | 2006/07/18 |
| MATERIAL NO.    |            |
| SEE CHART       |            |
| SIZE            |            |
| A4              |            |

|                                                                                                                 |                      |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>NTS                                                                                                    | DESIGN UNITS<br>INCH |  THIRD ANGLE<br>PROJECTION |
| TITLE                                                                                                           |                      |                                                                                                                 |
| FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>28AWG STRANDED TINNED                                         |                      |                                                                                                                 |
|  MOLEX INCORPORATED        |                      |                                                                                                                 |
| DOCUMENT NO.<br>SD-7307-001                                                                                     |                      | SHEET NO.<br>1 OF 3                                                                                             |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                                                                                                 |

## E

## D

2

## B

A

tb\_frame\_A4\_P\_ME\_T  
Rev. E 2006/04/15

1

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

E

E

D

D

C

C

B

B

A

A

| CHART A<br>DIMENSIONS MM. (INCHES) |                |                |              |                 | SHIPPED ON<br>100 FT. REELS |              |
|------------------------------------|----------------|----------------|--------------|-----------------|-----------------------------|--------------|
| ENG. NO.                           | NO.OF<br>COND. | DIMENSION<br>S |              | DIM. W<br>(REF) | ENGINEERING<br>NO.          | ORDER<br>NO. |
| 7307-02                            | 2              | 2.54±0.127     | (.100±.005)  | 5.08 (.200)     | 7307-02-100B                | 82-28-5802   |
| 7307-03                            | 3              | 5.08±0.20      | (.200±.008)  | 7.62 (.300)     | ▲ -03- ▲                    | ▲ 03         |
| 7307-04                            | 4              | 7.62±0.30      | (.300±.012)  | 10.16 (.400)    | ▲ -04- ▲                    | ▲ 04         |
| 7307-05                            | 5              | 10.16±0.33     | (.400±.013)  | 12.70 (.500)    | ▲ -05- ▲                    | ▲ 05         |
| 7307-06                            | 6              | 12.70±0.33     | (.500±.013)  | 15.24 (.600)    | ▲ -06- ▲                    | ▲ 06         |
| 7307-07                            | 7              | 15.24±0.33     | (.600±.013)  | 17.78 (.700)    | ▲ -07- ▲                    | ▲ 07         |
| 7307-08                            | 8              | 17.78±0.33     | (.700±.013)  | 20.32 (.800)    | ▲ -08- ▲                    | ▲ 08         |
| 7307-09                            | 9              | 20.32±0.33     | (.800±.013)  | 22.86 (.900)    | ▲ -09- ▲                    | ▲ 09         |
| 7307-10                            | 10             | 22.86±0.33     | (.900±.013)  | 25.40 (1.000)   | ▲ -10- ▲                    | ▲ 10         |
| 7307-11                            | 11             | 25.40±0.33     | (1.000±.013) | 27.94 (1.100)   | ▲ -11- ▲                    | ▲ 11         |
| 7307-12                            | 12             | 27.94±0.33     | (1.100±.013) | 30.48 (1.200)   | ▲ -12- ▲                    | ▲ 12         |
| 7307-13                            | 13             | 30.48±0.33     | (1.200±.013) | 33.02 (1.300)   | ▲ -13- ▲                    | ▲ 13         |
| 7307-14                            | 14             | 33.02±0.33     | (1.300±.013) | 35.56 (1.400)   | ▲ -14- ▲                    | ▲ 14         |
| 7307-15                            | 15             | 35.56±0.33     | (1.400±.013) | 38.10 (1.500)   | ▲ -15- ▲                    | ▲ 15         |
| 7307-16                            | 16             | 38.10±0.33     | (1.500±.013) | 40.64 (1.600)   | ▲ -16- ▲                    | ▲ 16         |
| 7307-17                            | 17             | 40.64±0.33     | (1.600±.013) | 43.18 (1.700)   | ▲ -17- ▲                    | ▲ 17         |
| 7307-18                            | 18             | 43.18±0.33     | (1.700±.013) | 45.72 (1.800)   | ▲ -18- ▲                    | ▲ 18         |
| 7307-19                            | 19             | 45.72±0.33     | (1.800±.013) | 48.26 (1.900)   | ▲ -19- ▲                    | ▲ 19         |
| 7307-20                            | 20             | 48.26±0.33     | (1.900±.013) | 50.80 (2.000)   | ▼ -20- ▼                    | ▼ 20         |

ENGINEERING NO.

7307-XX-XXXX

A B C D

A : CABLE 2.54mm. (.100") CENTERS 28 AWG STRANDED TINNED

B : CONDUCTOR SIZE ( AVAILABILITY 2 THROUGH 20 )

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

D : A = INCHES

B = FEET

|                                                                                                                                      |                    |                                          |                                                            |       |       |                          |                                                                                                                                  |                                                                                  |                      |                                                                                                                 |           |  |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------|------------------------------------------------------------|-------|-------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|-----------|--|
| SEE CHANGE DETAIL.<br>EC NO: THL2008-0015<br>DRWN:CPANSAKHOM 2007/11/28<br>CHKD:DNARINTARA 2007/11/29<br>APPR:SVIRATJAPOL 2007/12/04 | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS<br><br>▽ =<br><br>C = | GENERAL TOLERANCES<br>(UNLESS SPECIFIED)                   |       |       | DIMENSION STYLE<br>MM/IN |                                                                                                                                  | SCALE<br>NTS                                                                     | DESIGN UNITS<br>INCH |  THIRD ANGLE<br>PROJECTION |           |  |
|                                                                                                                                      |                    |                                          |                                                            | mm    | INCH  | DRAWN BY                 | DATE                                                                                                                             | TITLE<br>FCB ROUND CONDUCTOR<br>2.54MM(.100)CENTER PVC.<br>28AWG STRANDED TINNED |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | 4 PLACES                                                   | ± --- | ± --- | CPANSAKHOM               | 2006/07/18                                                                                                                       |                                                                                  |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | 3 PLACES                                                   | ± --- | ± --- | CHECKED BY               | DATE                                                                                                                             | MOLEX INCORPORATED                                                               |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | 2 PLACES                                                   | ± --- | ± --- | PMEECHAI                 | 2006/07/18                                                                                                                       |                                                                                  |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | 1 PLACE                                                    | ± --- | ± --- | APPROVED BY              | DATE                                                                                                                             | SD-7307-001                                                                      |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | ANGULAR ± ---°                                             |       |       | SVIRATJAPOL              | 2006/07/18                                                                                                                       |                                                                                  |                      |                                                                                                                 |           |  |
|                                                                                                                                      |                    |                                          | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       |       | MATERIAL NO.             |                                                                                                                                  | DOCUMENT NO.                                                                     |                      |                                                                                                                 | SHEET NO. |  |
|                                                                                                                                      |                    |                                          |                                                            |       |       | SEE CHART                |                                                                                                                                  | SD-7307-001                                                                      |                      |                                                                                                                 | 3 OF 3    |  |
|                                                                                                                                      |                    |                                          |                                                            |       |       | SIZE<br>A 4              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                  |                      |                                                                                                                 |           |  |