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Part Number: **0082265810**
Status: **Active**
Description: 2.54mm (.100") Pitch Round Conductor Flat Cable - 26 AWG (7 x 34) Stranded, Topcoat, 10 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 8996
 Crimp Quality Equipment Yes
 Geographic Area Asia
 Product Name Ribbon

Physical

Cable Length 30.48m (100.0')
 Circuits (Loaded) 10
 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 26
 Wire/Cable Type (7x34) Stranded, Topcoat

Electrical

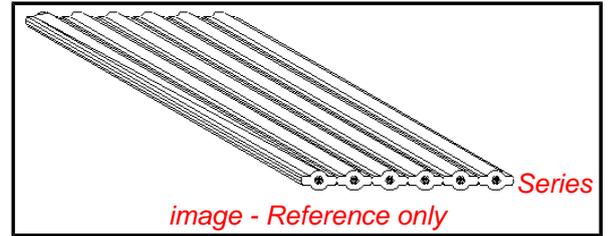
Current - Maximum per Contact N/A
 Voltage - Maximum 300V

Material Info

Old Part Number 8996-10-100B

Reference - Drawing Numbers

Sales Drawing SD-8996-001



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

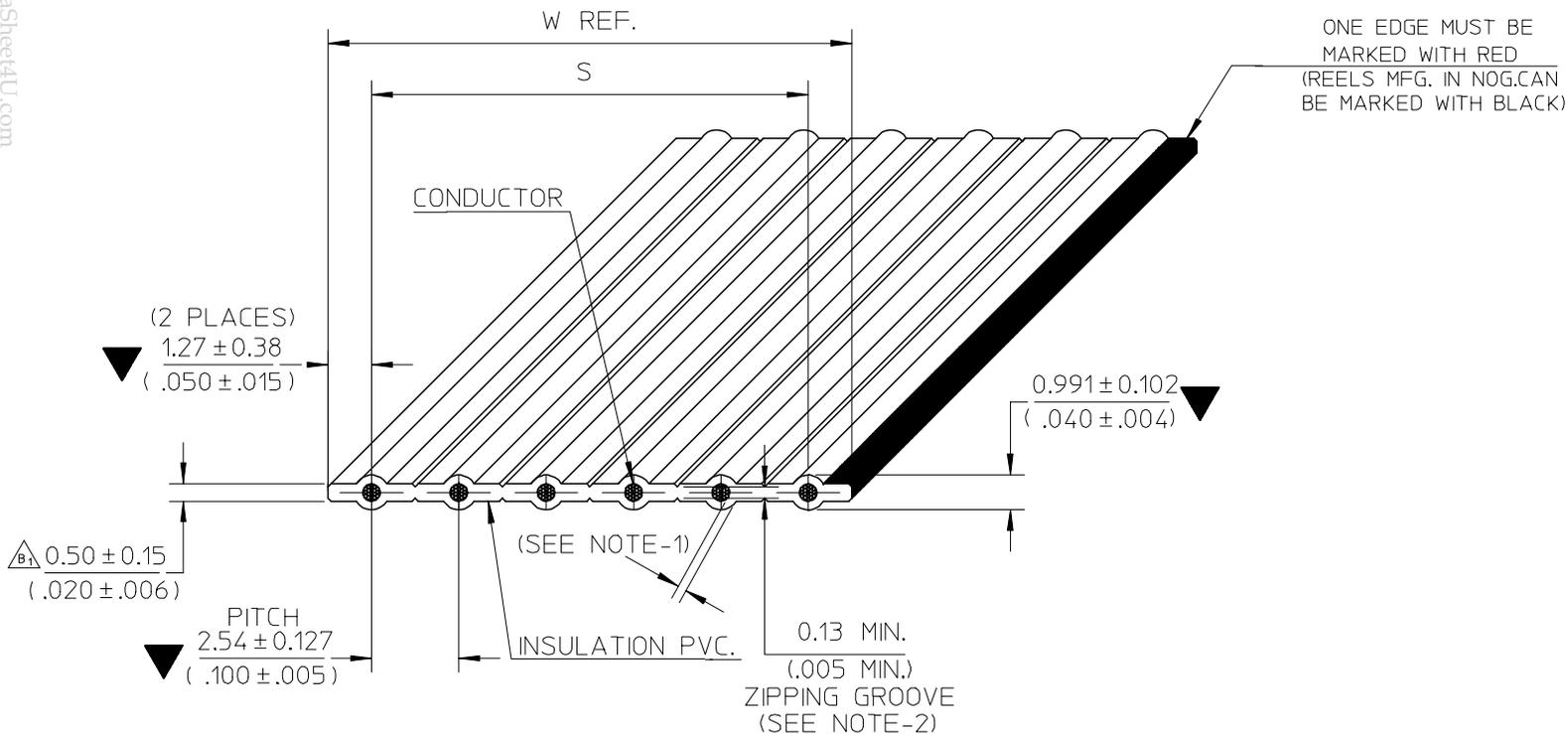
8996Series

Use With

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

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- 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

| | | |
|-----------|---|----------|
| E-07-0748 | B ₃ : ADD NON-OPERATING TEMP. B ₂ : ADD SOLDERING CONDITION B ₁ : CHANGE WEB THICKNESS | 07/09/26 |
| N/A | NEW RELEASE | 06/07/18 |
| 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) | | DIMENSION STYLE MM/IN | SCALE NTS | DESIGN UNITS INCH | THIRD ANGLE PROJECTION | |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- | DRAWN BY CPANSAKHOM | DATE 2006/07/18 | TITLE FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 26AWG STRANDED TOPCOATED | | | |
| | | ANGULAR ± --- ° | CHECKED BY PMEECHAI | DATE 2006/07/18 | MOLEX INCORPORATED | | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | APPROVED BY SVIRATJAPOL | DATE 2006/07/18 | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-8996-001 | SHEET NO. 1 OF 3 | |

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 2.54 (.100") ϵ TO ϵ
 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.) ----- 43m. 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

Δ_{B_1} NON-OPERATING TEMPERATURE ----- -20°C TO 105°C
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 \pm 3 FT. (30.48 \pm 0.914 M.)/REEL
 ----- 20FT. (6.096M.) MIN. LENGTH
 Δ_{B_2} 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/IN | | NTS | INCH | | | |
| | | $\blacktriangledown =$ $\triangleleft =$ | | 4 PLACES | \pm ---- | \pm ---- | DRAWN BY | DATE | TITLE | | | |
| | | | | 3 PLACES | \pm ---- | \pm ---- | CPANSAKHOM | 2006/07/18 | FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 26AWG STRANDED TOPCOATED | | | |
| | | | | 2 PLACES | \pm ---- | \pm ---- | CHECKED BY | DATE | MOLEX INCORPORATED | | | |
| | | 1 PLACE | \pm ---- | \pm ---- | PMEECHAI | 2006/07/18 | APPROVED BY | | DATE | MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
| | | ANGULAR \pm ---- | | \circ | SVIRATJAPOL | 2006/07/18 | SEE CHART | | SD-8996-001 | 2 OF 3 | | |
| | | 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.) |
| 8996-02-100B | 82-26-5802 | 2 | 2.54±0.127 (.100±.005) | 5.08 (.200) |
| ↑ -03- ↑ | ↑ 03 | 3 | 5.08±0.20 (.200±.008) | 7.62 (.300) |
| -04- | 04 | 4 | 7.62±0.30 (.300±.012) | 10.16 (.400) |
| -05- | 05 | 5 | 10.16±0.33 (.400±.013) | 12.70 (.500) |
| -06- | 06 | 6 | 12.70±0.33 (.500±.013) | 15.24 (.600) |
| -07- | 07 | 7 | 15.24±0.33 (.600±.013) | 17.78 (.700) |
| -08- | 08 | 8 | 17.78±0.33 (.700±.013) | 20.32 (.800) |
| -09- | 09 | 9 | 20.32±0.33 (.800±.013) | 22.86 (.900) |
| -10- | 10 | 10 | 22.86±0.33 (.900±.013) | 25.40 (1.000) |
| -11- | 11 | 11 | 25.40±0.33 (1.000±.013) | 27.94 (1.100) |
| -12- | 12 | 12 | 27.94±0.33 (1.100±.013) | 30.48 (1.200) |
| -13- | 13 | 13 | 30.48±0.33 (1.200±.013) | 33.02 (1.300) |
| -14- | 14 | 14 | 33.02±0.33 (1.300±.013) | 35.56 (1.400) |
| -15- | 15 | 15 | 35.56±0.33 (1.400±.013) | 38.10 (1.500) |
| -16- | 16 | 16 | 38.10±0.33 (1.500±.013) | 40.64 (1.600) |
| -17- | 17 | 17 | 40.64±0.33 (1.600±.013) | 43.18 (1.700) |
| -18- | 18 | 18 | 43.18±0.33 (1.700±.013) | 45.72 (1.800) |
| ↓ -19- ↓ | ↓ 19 | 19 | 45.72±0.33 (1.800±.013) | 48.26 (1.900) |
| 8996-20-100B | 82-26-5820 | 20 | 48.26±0.33 (1.900±.013) | 50.80 (2.000) |

ENGINEERING NO.

8996-XX-XXXX
A B C D

A : CABLE 2.54mm. (.100") CENTERS 26AWG STRANDED TOPCOATED
 B : CONDUCTOR SIZE (AVAILABILITY 2 THROUGH 20)
 C : CABLE LENGTH 100FT. (30.48M.)
 D : A = INCHES
 B = FEET

| | | | | | | | |
|---|-------------------------------|---------------------------------------|--|--------------------------|---|-----------------------------|---|
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| | | | mm | INCH | DRAWN BY CPANSAKHOM | DATE 2006/07/18 | TITLE FCB ROUND CONDUCTOR 2.54MM(.100)CENTER PVC. 26AWG STRANDED TOPCOATED |
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| | | 3 PLACES | ± --- | ± --- | APPROVED BY SVIRATJAPOL | DATE 2006/07/18 | |
| 2 PLACES | ± --- | ± --- | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE CHART | DOCUMENT NO. SD-8996-001 | SHEET NO. 3 OF 3 |
| 1 PLACE | ± --- | ± --- | | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |
| ANGULAR ± ---° | | | | | | | |