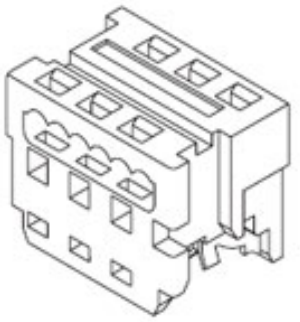
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# PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** 0903270316
**Status:** Active
**Description:** 1.27mm (.050") Pitch Picoflex® PF-50, Low Profile, IDT Receptacle, 16 Circuits, Natural, Tin Plated

**Documents:**
3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)



*Series image - Reference only*

## Agency Certification

| | |
|---|---|
| CSA | LR19980 |
| UL | E29179 |

## General

| | |
|---|---|
| Product Family | Ribbon Cable / Wire Trap Connectors |
| Series | 90327 |
| Comments | Low Profile |
| Component Type | Housing |
| Glow-Wire Compliant | No |
| MolexKits | Yes |
| Product Name | Picoflex® |

## Physical

| | |
|---|---|
| Circuits (Loaded) | 16 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 30 |
| Entry Angle | 90° Angle |
| Flammability | 94V-0 |
| Lock to Mating Part | Yes |
| Material - Metal | Phosphor Bronze |
| Material - Plating Mating | Tin |
| Material - Plating Termination | Tin |
| Material - Resin | Polyester |
| Number of Rows | 2 |
| PCB Retention | None |
| Packaging Type | Bag |
| Pitch - Mating Interface (in) | 0.050 In |
| Pitch - Mating Interface (mm) | 1.27 mm |
| Plating min: Mating (µin) | 80.00 |
| Plating min: Mating (µm) | 2.000 |
| Plating min: Termination (µin) | 80.00 |
| Plating min: Termination (µm) | 2.00 |
| Polarized to Mating Part | Yes |
| Stackable | No |
| Surface Mount Compatible (SMC) | N/A |
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style | IDT or Pierce |
| Wire Insulation Diameter | 1.00mm (.039") max. |
| Wire Size AWG | 26, 28 |
| Wire/Cable Type | Ribbon Cable |

## Electrical

| | |
|---|---|
| Current - Maximum per Contact | 1.2A |
| Voltage - Maximum | 250V |

## Material Info

**EU RoHS**
**ELV and RoHS Compliant**
**REACH SVHC**
**Contains SVHC: No**
**Halogen-Free Status**
**Not Halogen-Free**

**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**
90327Series

**Mates With**
Low Profile Vertical 90325 , Low Profile Right Angle 90800 , 90715 , 90814 , 90779 Vertical

**Application Tooling** | **FAQ**
*Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.*

**Global**

| Description | Product # |
|---|---|
| Arbor Press Fixture | 0690201902 |
| Extrator Tool for Picoflex™ Connectors | 0621006000 |
| Extraction Tool (Plastic) for 90327 Connector, 4-26 Circuit | 0690081070 |

## Reference - Drawing Numbers

| | |
|---|---|
| Application Specification | ES-99033-0001 |
| Sales Drawing | SDA-90327 |

| | |
|---|---|
| Handtool for 90327, 90584 and 91577 Picoflex® Connectors, 4-26 Circuit | 0690081090 |
| Arbor Press Fixture for 91577 Picoflex® Connectors | 0690201908 |
| Semi-Automatic Bench Press PB14 for 90327 Connectors, 4 to 26 Circuit | 0691271001 |

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NOTES:

1. APPL. CLASS TO DIN 40040 HME (-25°C/+100°C).
2. COMPATIBLE WITH MOLEX PT 90325.
3. USE WITH CABLES 28AWG STD. 26AWG STD. AND 26AWG (69 STRANDS) SUPERFLEX.
4. TERMINATION SPECIFICATION: ES-99033-0001.
5. PRODUCT SPECIFICATION: PS-99020-0011.

90 27- * 3 * *

- 0= 2um PRE TIN ASSY
- 3= 0.76um GOLD ASSY

SEE CONTACT PLATING NOTE

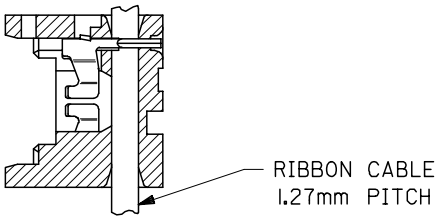
- 04 TO 26 = CCT SIZE, 51 TO 98 = ASSY ON REELS, SEE CHART.
- COLOUR WHITE

HOUSING

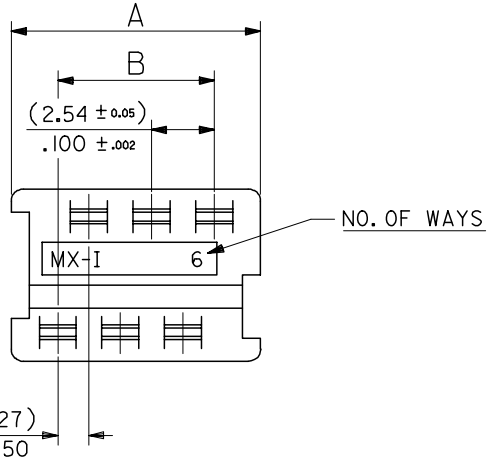
MATL: POLYESTER RATED AT UL 94 V-0, COLOUR WHITE.

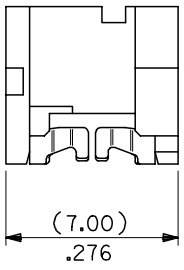
IDT CONTACT

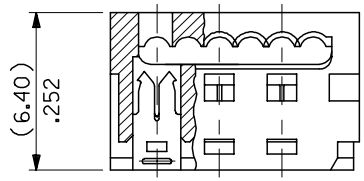
MATL. PHOS BRONZE (0.17)/.0066 THK HV 180-200
PLATING. TIN: (2-4um)/80-160u" PURE TIN
PLATING. GOLD: (1.3um)/50u" MIN. NICKEL UNDER (0.76um)/30u" SELECTIVE GOLD




SECTION SHOWING
ASSY AFTER TERMINATION
SEE NOTE 6




| PART NO. | CCT SIZE | DIMENSION A | DIMENSION B |
|---|---|---|---|
| 90327-*326 | 26 | (35.53)/1.399 | (31.75)/ 1.250 |
| -*324 | 24 | (32.99)/1.299 | (29.21)/1.150 |
| -*322 | 22 | (30.45)/1.199 | (26.67)/1.050 |
| -*320 | 20 | (27.91)/1.099 | (24.13)/ .950 |
| -*318 | 18 | (25.37)/ .999 | (21.59)/ .850 |
| -*316 | 16 | (22.83)/ .899 | (19.05)/ .750 |
| -*314 | 14 | (20.29)/ .799 | (16.51)/ .650 |
| -*312 | 12 | (17.75)/ .699 | (13.97)/ .550 |
| -*310 | 10 | (15.21)/ .599 | (11.43)/ .450 |
| -*308 | 8 | (12.67)/ .499 | ( 8.89)/ .350 |
| -*306 | 6 | (10.13)/ .399 | ( 6.35)/ .250 |
| 90327-*304 | 4 | ( 7.59)/ .299 | ( 3.81)/ .150 |

REMOVE COLOUR CODE
EC NO: E2007-0940
DRWN:DWASZKIEWICZ 2007/06/07
CHKD:DMORIARTY 2007/06/11
APPR: JDENNEHY 2007/06/14
DESCRIPTION
AF
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | mm | INCH |
|---|---|---|
| 4 PLACES | ± --- | ± --- |
| 3 PLACES | ± --- | ± .004 |
| 2 PLACES | ± 0.10 | ± --- |
| 1 PLACE | ± --- | ± --- |

ANGULAR ± 2 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 5:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: NPC DATE: 1987/07/28
CHECKED BY: DMORIARTY DATE: 2004/09/15
APPROVED BY: JDENNDHY DATE: 2004/09/16
MATERIAL NO.: SEE CHART

TITLE: IDT ASSEMBLY PICOFLEX

molex MOLEX INCORPORATED

DOCUMENT NO.: SDA-90327
SHEET NO.: 1 OF 2

SIZE A3

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