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### What is "**Embedded - Microcontrollers**"?

"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

### Applications of "**Embedded - Microcontrollers**"

| Details | |
|---|---|
| Product Status | Active |
| Core Processor | AVR |
| Core Size | 8-Bit |
| Speed | 16MHz |
| Connectivity | SPI |
| Peripherals | Brown-out Detect/Reset, POR, PWM, WDT |
| Number of I/O | 16 |
| Program Memory Size | 16KB (16K x 8) |
| Program Memory Type | FLASH |
| EEPROM Size | 512 x 8 |
| RAM Size | 1K x 8 |
| Voltage - Supply (Vcc/Vdd) | 2.7V ~ 5.5V |
| Data Converters | A/D 11x10b; D/A 1x10b |
| Oscillator Type | Internal |
| Operating Temperature | -40°C ~ 105°C (TA) |
| Mounting Type | Surface Mount |
| Package / Case | 20-SOIC (0.295", 7.50mm Width) |
| Supplier Device Package | 20-SOIC |
| Purchase URL | https://www.e-xfl.com/product-detail/microchip-technology/at90pwm161-16sn |

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

**Part Number:** 15166-0292

**Status:** Active

**Overview:** Premo-Flex™ FFC and Etched Polyimide Jumpers

**Description:** 0.50mm Pitch Premo-Flex™ FFC Jumper, Opposite Side Contacts (Type D), 26 Circuits, 0.305m Cable Length, Cable Thickness 0.12mm, Tin (Sn) Plating

**Documents:**

| | |
|---|---|
| Drawing (PDF) | Packaging Specification PK-15166-001 (PDF) |
| Product Specification PS-15166-001 (PDF) | RoHS Certificate of Compliance (PDF) |

*Series*
*image - Reference only*

### General

| | |
|---|---|
| Product Family | Cable |
| Series | 15166 |
| Comments | Contacts on opposite sides, Type D |
| Crimp Quality Equipment | Yes |
| Overview | Premo-Flex™ FFC and Etched Polyimide Jumpers |
| Product Name | Premo-Flex™FFC Jumper |
| UPC | 884982847903 |

### Physical

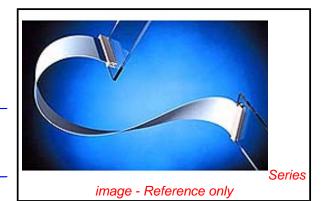| | |
|---|---|
| Cable Length | 0.305m |
| Circuits (Loaded) | 26 |
| Circuits (maximum) | 26 |
| Net Weight | 1.000/g |
| Packaging Type | Bag |
| Pitch - Termination Interface | 0.50mm |
| Temperature Range - Operating | -40°C to +105°C |
| Wire Size AWG | N/A |
| Wire/Cable Type | Flat Flex Cable |

### Electrical

| | |
|---|---|
| Current - Maximum per Contact | 0.5A |
| Voltage - Maximum | 60V AC |

### Material Info

### Reference - Drawing Numbers

| | |
|---|---|
| Packaging Specification | PK-15166-001 |
| Product Specification | PS-15166-001 |
| Sales Drawing | SD-15166-001 |

**EU RoHS** **China RoHS**

**ELV and RoHS Compliant**

**REACH SVHC**
**Not Reviewed**

**Low-Halogen Status**
**Not Reviewed**

**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**
15166Series

**Use With**
www.molex.com/product/ffcfpc_th.html

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