

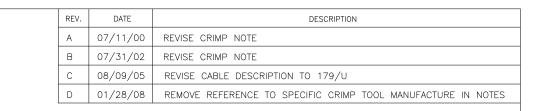
Welcome to **E-XFL.COM**

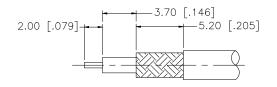
What is "Embedded - Microcontrollers"?

"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.

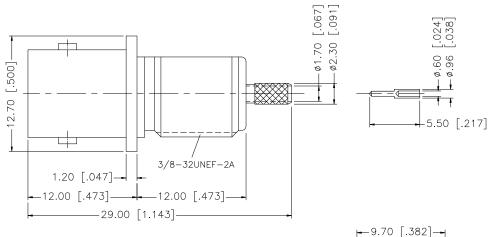
Applications of "<u>Embedded - Microcontrollers</u>"

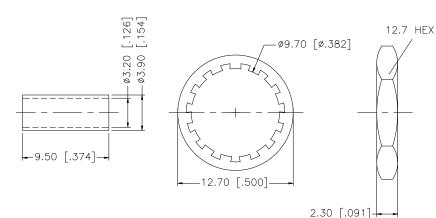
| Details | |
|----------------------------|---|
| Product Status | Active |
| Core Processor | ARM® Cortex®-M4 |
| Core Size | 32-Bit Single-Core |
| Speed | 48MHz |
| Connectivity | I ² C, IrDA, LINbus, SPI, UART/USART, USB |
| Peripherals | Brown-out Detect/Reset, DMA, I2S, POR, PWM, WDT |
| Number of I/O | 48 |
| Program Memory Size | 128KB (128K x 8) |
| Program Memory Type | FLASH |
| EEPROM Size | - |
| RAM Size | 32K x 8 |
| Voltage - Supply (Vcc/Vdd) | 1.68V ~ 3.6V |
| Data Converters | A/D 7x12b; D/A 1x10b |
| Oscillator Type | Internal |
| Operating Temperature | -40°C ~ 85°C (TA) |
| Mounting Type | Surface Mount |
| Package / Case | 64-VFQFN Exposed Pad |
| Supplier Device Package | 64-QFN (9x9) |
| Purchase URL | https://www.e-xfl.com/product-detail/microchip-technology/atsam4ls2ba-mur |





RECOMMENDED CABLE STRIPPING DIMENSIONS





85 œ RECOMMENDED MOUNTING HOLE

NOTE:

1- USE .128" HEX CRIMP DIE SET TO TERMINATE OUTER FERRULE

| | | | | | UNLE |
|---|-------------|-------------|---------|------|------|
| 8 | | | | | INCH |
| 7 | | | | | |
| 6 | HEX NUT | BRASS | NICKEL | 1 | |
| 5 | LOCK WASHER | BRASS | NICKEL | 1 | 3 |
| 4 | FERRULE | BRASS | NICKEL | 1 | _ |
| 3 | CONTACT PIN | BER. COPPER | GOLD | 1 | |
| 2 | INSULATOR | TEFLON | NATURAL | 1 | |
| 1 | BODY | BRASS | NICKEL | 1 | 1.1 |
| | DESCRIPTION | MATERIAL | LINICII | QTY | |
| | DESCRIPTION | IMATERIAL | FINISH | ועוז | |

ILESS OTHERWISE SPECIFIED DIMENSIONS ARE N MILLIMETERS. DIMENSIONS IN [] ARE IN CHES AND FOR CUSTOMER REFERANCE ONLY.

UNLESS OTHERWISE SPECIFIED TOLERANCES FOR MILLIMETERS ARE: $0.5 - 8mm \pm 0.20mm$ $8 - 30mm \pm 0.40mm$ 30 - 120mm ± 0.50 mm

> UNLESS OTHERWISE SPECIFIED TOLERANCES FOR INCHES ARE:

 $.020 - .315 = \pm 0.007$ " $.315 - 1.180 = \pm 0.015$ " $.180 - 4.724 = \pm 0.020$ " DO NOT SCALE DRAWING

| APPROVALS | DATE | | |
|--------------|----------|------|-----|
| DRAWN G.R.S. | 01/28/08 | | |
| CHECKED | | PART | DES |
| ISSUED | | | |
| SHEET 1 OF 1 | | PART | |
| | l | PARI | NU. |
| CAD FILE | | | NO. |
| | | | |

C:/112/112654.DWG

Amphenol Connex

PART DESCRIPTION

BNC BULKHEAD CRIMP JACK (front mount) (FOR 179/U 75ohm CABLE)

| PART | NO. | |
|------|-----|--|
| | | |

112654

| 112654.DWG | REV. | SIZE A |
|------------|------|--------|

SCALE

NA