

INDUSTRIAL PRODUCT DATASHEET

Grove - UART Crossover Cable 4Pin 20cm (5PCs Pack)

The Grove - UART Crossover Cable 4Pin 20cm (5PCs Pack) eliminates TX-collision with hardware pin-swapping, making it ideal for direct UART communication between dual XIAO ESP32-S3 Sense boards in AI edge applications.

SKU

100052406

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PRICE

\$1.99(Excl. VAT)



Overview



The Grove - UART Crossover Cable 4Pin 20cm (5PCs Pack) is designed exclusively for UART communication, featuring a hardware-level swap of Pin 3 (White) and Pin 4 (Yellow) to automatically cross TX and RX and solve TX-collision when connecting two main controllers. With a 20cm compact length and standard Grove buckled connectors, it enables clean, reliable high-speed data transmission for dual XIAO ESP32-S3 Sense setups in applications like Server Room Intrusion Detection.

Key Features

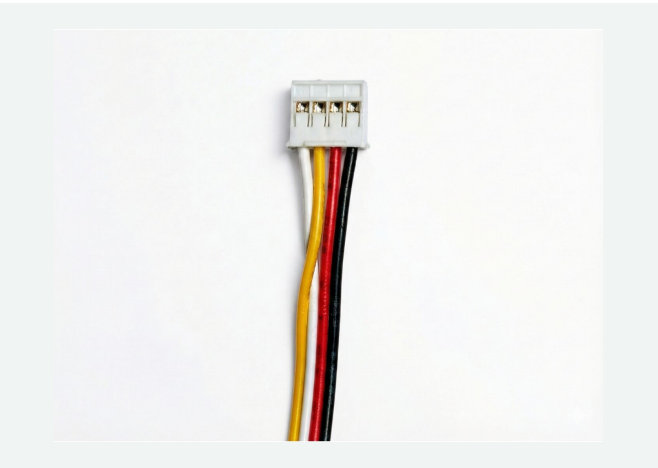
Note:

This cable is designed for UART communication only.

Do not use it for I2C devices, as it will swap SCL and SDA lines.

- **Hardware-Level Logic Swapping:** Specifically designed with Pin 3 (White) and Pin 4 (Yellow) swapped at one end. This automatically routes Transmit (TX) to Receive (RX), solving the "TX-collision" issue when connecting two main controller boards.
- **Dual-Core AI Architecture Enabler:** The perfect companion for the [Server Room Intrusion Detection system](#). It connects one XIAO ESP32-S3 Sense (Vision Processing) to a second XIAO ESP32-S3 Sense (Logic/Reporting), enabling high-speed coordinate data transmission.
- **Clean & Compact Wiring:** Replaces messy breadboard wiring or makeshift cut cables. The 20cm length is optimized for stacking expansion boards or compact enclosure routing.
- **Standard Grove Reliability:** Features standard buckled connectors to ensure secure data transmission even in vibrating environments like server fan racks.

Product Gallery

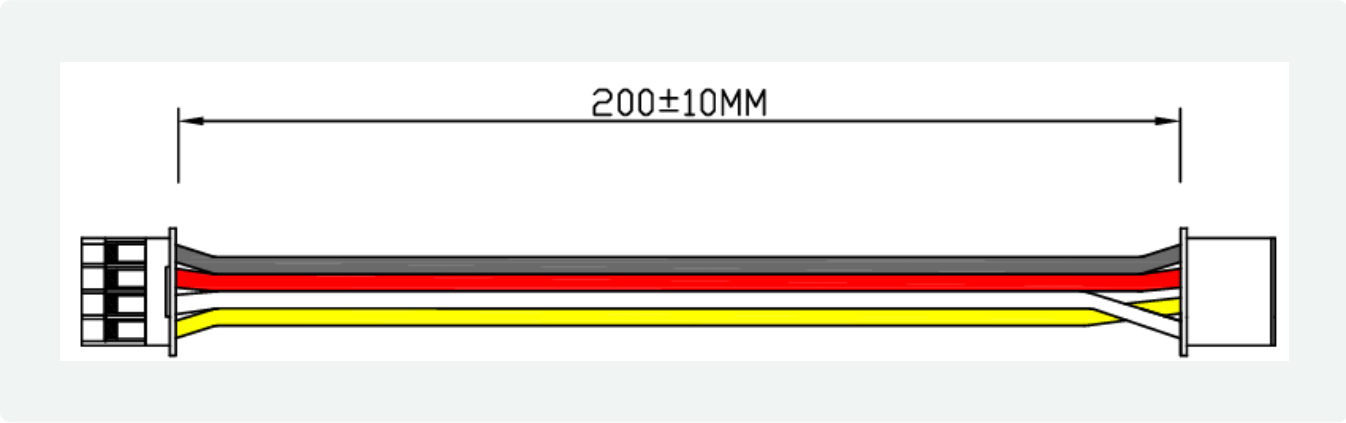


Specification

Parameter	Description
Interface	Grove 4-Pin Buckled Connector (HY2.0-4P)
Length	200mm ± 10mm
Pinout Definition	End A: 1-GND, 2-VCC, 3-White, 4-Yellow End B: 1-GND, 2-VCC, 3-Yellow, 4-White (Crossed)
Wire Material	PVC insulation, Copper core
Rated Voltage	300V

Package	5 PCs /Pack
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Hardware Overview



Applications

- Server Room Intrusion Detection (SenseCraft AI / Dual-XIAO Setup)
- MCU-to-MCU Communication
- UART Peripheral Expansion
- Rapid Prototyping & Debugging

Part List

Grove - UART Crossover Cable 4Pin 20cm (5PCs Pack)	×1
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Compliance & Logistics

HSCODE	8544422900
USHSCODE	8544421000
UPC	
EUHSCODE	8544119000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/Flat-Cable-HYtoHY-4-Pin-20cm-24AWG-5-PCs-Pack-p-6643.html>

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