

# NexBot Robotics NET522-001 Fieldbus Cable, EtherCAT, 10m

NexBot  
Robotics

SKU: NXB-CBL-NET522-001 | Category: Cables & Connectors > Signal Cables > Fieldbus Cables

## Overview

The NexBot Robotics NET522-001 is a high-performance EtherCAT fieldbus cable engineered for reliable, high-speed data transmission in demanding industrial automation and robotics applications. This 10-meter cable provides a dependable communication link between robot controllers, distributed I/O modules, servo drives, and other peripherals on the factory floor. Its construction is optimized for the rigors of robotic systems, particularly in applications requiring continuous movement. The high-flex design can withstand millions of bend cycles without degradation in performance, making it suitable for use in dynamic drag chain (e-chain) installations common on articulated robot arms. The outer jacket is made from abrasion-resistant PUR (Polyurethane), which provides excellent protection against industrial oils, coolants, and chemicals, ensuring long-term operational integrity. To guarantee signal purity in electrically noisy environments, the NET522-001 cable features a multi-layer shielding design, incorporating both an aluminum foil wrap and a tinned copper braid. This dual shielding provides superior protection against electromagnetic interference (EMI) and radio frequency interference (RFI), preventing data corruption and communication errors that can lead to system downtime. The cable supports data rates up to 100 Mbps as specified by the EtherCAT standard, enabling real-time control and data acquisition. For ease of integration, it comes pre-terminated with industry-standard M12 D-coded connectors, which provide a secure, IP67-rated connection resistant to dust and water ingress. This plug-and-play design simplifies installation and maintenance, reducing setup time and potential wiring errors.

## Technical Specifications

Parameter	Value	Unit
Weight	1.5	kg
Material	PUR (Polyurethane)	
Voltage	24VDC	
IP Rating	IP67	
Country of Origin	KR	
Protocol	EtherCAT	

**Safety Notice:** This product must be installed and operated by qualified personnel in accordance with applicable safety standards (ISO 10218, IEC 61508).