

NexBot Robotics 512-004 Bus Power Cable, 4m, IP67

NexBot
Robotics

SKU: NXB-CBL-512-004 | Category: Cables & Connectors > Power Cables > Bus Power Cables

Overview

The NexBot Robotics 512-004 is a high-performance bus power cable designed to deliver consistent and reliable power from the robot controller to the robot base. This essential component ensures uninterrupted operation for a wide range of NexBot Robotics systems, providing a stable power foundation for precision automation tasks in demanding industrial settings. Built for longevity and performance, this cable features a high-flex construction specifically engineered to withstand the rigors of continuous motion. The robust Polyurethane (PUR) outer jacket provides superior resistance to abrasion, industrial oils, coolants, and chemicals, preventing premature wear and failure in harsh factory environments. This durable design minimizes downtime associated with cable fatigue, which is critical in multi-shift manufacturing operations. Its specified operating temperature range of -25°C to +80°C ensures consistent performance in both refrigerated and high-heat production areas. The 512-004 cable is equipped with an IP67 environmental rating, signifying it is completely protected against dust ingress and can withstand temporary immersion in water. This level of protection is vital for applications involving liquid spray, washdown procedures, or high humidity, safeguarding the electrical system from moisture and contaminants. The secure M12 style terminations feature a locking mechanism that resists vibration and accidental disconnection, a crucial feature for maintaining uptime in high-vibration applications like machining, stamping, or mobile robotics. With a standard length of 4 meters, this cable is suitable for most standard robotic cell layouts, providing sufficient length without creating excessive cable management challenges. Its robust internal shielding protects the 48VDC power signals from electromagnetic interference (EMI) generated by nearby equipment, ensuring clean power delivery to sensitive robot electronics and preventing logic faults or unexpected stops. As a direct OEM replacement part, the 512-004 cable guarantees perfect fitment and electrical compatibility, facilitating quick and straightforward installation during maintenance or system commissioning.

Technical Specifications

Parameter	Value	Unit
Weight	0.75	kg
Material	Polyurethane (PUR) Jacket	
Voltage	48VDC	
IP Rating	IP67	
Country of Origin	DE	

Parameter	Value	Unit
Protocol	PROFINET	

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