

NexBot Robotics NXB-CBL-512-001 Bus Power Cable, 48VDC, IP67

NexBot
Robotics

SKU: NXB-CBL-512-001 | Category: Cables & Connectors > Power Cables > Bus Power Cables

Overview

The NexBot Robotics NXB-CBL-512-001 is a high-performance bus power cable engineered to provide stable and continuous 48VDC power to critical components within NexBot Robotics systems. This cable is specifically designed for dynamic applications where constant movement, torsion, and environmental exposure are common challenges, ensuring uninterrupted operation of your automated workcells. Constructed with a rugged PUR (Polyurethane) outer jacket, the NXB-CBL-512-001 offers exceptional resistance to abrasion, oils, coolants, and industrial solvents. Its high-flex design is rated for millions of bending cycles without compromising electrical integrity, making it an ideal choice for articulated robot arms and other moving machinery. The robust construction minimizes downtime associated with cable fatigue and failure. Internally, the cable features finely stranded copper conductors and comprehensive shielding to protect against electromagnetic interference (EMI) and radio-frequency interference (RFI), preserving power quality in electrically noisy factory settings. With an ingress protection rating of IP67, this power cable is fully protected against dust ingress and can withstand temporary immersion in water. This feature makes it suitable for use in washdown environments or areas where exposure to liquids is a constant factor. The NXB-CBL-512-001 is a crucial component for maintaining system reliability in applications such as automated welding, material handling, assembly, and packaging. Proper installation involves routing the cable according to the robot's service manual, ensuring it is secured correctly to prevent snagging or excessive wear during operation. This cable serves as a direct replacement part, ensuring seamless integration with compatible NexBot Robotics systems.

Technical Specifications

Parameter	Value	Unit
Weight	1.2	kg
Material	PUR (Polyurethane)	
Voltage	48VDC	

Parameter	Value	Unit
IP Rating	IP67	
Country of Origin	KR	
Protocol	PROFINET	
Dimensions	5 m length, 8.5 mm outer diameter	

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