

NexBot Safety 542-008 Cable Dress Pack

**NexBot
Robotics**

SKU: NXB-CBL-542-008 | Category: Cables & Connectors > Cable Management > Cable Dress Packs

Overview

The NexBot Safety 542-008 Cable Dress Pack is an engineered solution designed to organize and protect pneumatic hoses and electrical wiring on NexBot industrial robot arms. This comprehensive pack provides a secure and managed pathway for critical supply lines, preventing premature wear, kinking, and entanglement that can lead to costly downtime in automated manufacturing environments. By routing utilities along the robot's upper arm, it ensures predictable motion and minimizes stress on the internal wiring harness. The core of the system is a highly flexible, abrasion-resistant polyamide conduit with an inner diameter suitable for common industrial communication and power lines. This material is rated for millions of flex cycles and maintains its integrity across a wide operating temperature range of -40°C to +90°C, making it suitable for demanding factory conditions. With an ingress protection rating of IP67, the conduit effectively shields its contents from dust, debris, and liquid ingress, a critical feature in applications like CNC machine tending or parts washing. Key benefits include a significant reduction in unplanned maintenance and an increase in the operational lifespan of robot utilities. The modular design, featuring robust aluminum mounting hardware, allows for straightforward installation onto predefined points on the robot arm structure. This pack is specifically engineered for applications requiring complex wrist articulation, such as automated welding, dispensing, and intricate material handling, where unmanaged wiring can easily fail. The defined bend radius of 150 mm prevents sharp angles that could damage sensitive fiber optic or data lines within the bundle. Proper installation of this dress pack is a foundational step in creating a reliable and robust robotic work cell.

Technical Specifications

| Parameter | Value | Unit |
|-------------------|--|------|
| Weight | 4.2 | kg |
| Material | Polyamide PA12 Conduit, Aluminum 6061-T6 Mounting Hardware | |
| IP Rating | IP67 | |
| Country of Origin | IT | |
| Protocol | PROFINET | |

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