

Braided Aramid Sleeve – Technical Datasheet

Product Page: https://www.pkfiresleeve.com/braided-aramid-sleeve_p245.html

Product Definition

Braided aramid sleeve is a high-strength protective sleeving manufactured from aramid fibers using a dense braided construction. It is designed to protect hydraulic hoses, cables, and wire harnesses from abrasion, cutting, and mechanical wear in demanding industrial environments. This product is intended for applications where external mechanical damage is the primary failure risk, rather than heat or flame exposure.

Material & Construction

Fiber Material	High-tenacity aramid fiber
Construction	Braided tubular structure
Structure Type	Expandable sleeve
Electrical Properties	Non-conductive
Color	Natural yellow (custom options available)

Key Performance Characteristics

Property	Performance Description
Abrasion Resistance	Excellent – suitable for continuous mechanical contact
Cut & Tear Resistance	High – resists sharp edges and debris
Flexibility	High – suitable for dynamic and moving systems
Heat Resistance	Limited – not intended for fire or thermal insulation
UV & Environmental Resistance	Good – suitable for industrial environments

Typical Applications

- Hydraulic and pneumatic hoses
- Cable and wire harness protection
- Mining and underground equipment
- Robotics and automation systems
- Construction and heavy industrial machinery

Application Guidelines

Recommended for:

- Abrasion-dominant environments
- Applications with vibration and movement
- Hose routing near metal frames or sharp edges

Not recommended for:

- Direct flame exposure
- Fire containment or thermal insulation applications

Installation Notes

- Slide-over installation
- Can be cut to length on-site
- No adhesive or curing required
- Compatible with clamps, cable ties, and shrink terminations

Compliance & Notes

Suitable for OEM and industrial applications. RoHS compliant materials available upon request.