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# AR CYLINDRICAL FUSE LINKS FOR SEMICONDUCTORS

Rapidplus cylindrical fuse links for semiconductors

491105
Semiconductor High Speed Fuse Link 10x38mm aR , 690V, 1A




- 10x38, 14x51 and 22x58 sizes
- wide range rated between 1A and 100A
- UL and IEC approved
- Rated up to 690VAC

**PRODUCT DESCRIPTION**

## AR CYLINDRICAL SEMICONDUCTOR FUSE LINKS – FAST-ACTING PROTECTION FOR POWER ELECTRONICS

DF Electric's aR cylindrical fuse links are high-speed aR-class fuses, specifically designed to protect semiconductor components such as IGBTs, thyristors, SCRs, and diodes. These fast-acting fuses provide critical protection in circuits where conventional fuses are too slow to react to short-circuit events.

### KEY FEATURES

- aR operating class – Offers ultra-fast disconnection to protect sensitive semiconductors from damage during fault conditions
- Voltage rating – Up to 690V AC and 700V DC (L/R = 10ms)
- Breaking capacity – 200kA at 690V AC, 30kA at 700V DC
- Current ratings – 1A to 100A
- Optional striker pin – Compatible with microswitches for remote fault indication
- Construction – Ceramic tube with silver-plated contacts for high durability and conductivity
- Standards – Compliant with IEC/EN 60269-1/-4 and UL 248-1/-13

### APPLICATIONS

- Power semiconductor protection (IGBTs, MOSFETs, thyristors)
- DC/AC inverters and rectifiers
- Soft starters and variable speed drives (VSD/VFD)
- UPS systems, welding controls, and high-speed DC switching equipment
- Any power electronics requiring low $I^2t$ and rapid fault isolation

### WHY CHOOSE DF ELECTRIC AR FUSE LINKS?

- Specifically engineered for semiconductor fault protection
- Fast acting with minimal energy let-through (low $I^2t$)
- Supports both AC and DC environments with high breaking capacity
- Reliable performance in industrial automation, drive systems, and precision electronics

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Type** | aR |
| **4853_Size (mm)** | 10x38 |

| | |
|---|---|
| **Rated current** | 1 A |
| **Voltage ac max** | 690 V |
| **Voltage dc max** | 700 V |
| **Frequency** | 42...62Hz |
| **Indicator** | No |

## ADDITIONAL DATA

| | |
|---|---|
| **Tariff code** | 85361010 |
| **Country of origin** | ES |
| **Weight** | 8 g |
| **Pack size** | 10 |