



# Traction Capability Overview



**Cooper Bussmann has more than 100 years of proven technical innovation to help make your operation more productive while protecting your equipment, employees and customers.**

During this time Cooper Bussmann has gained a vast amount of knowledge in protecting traction systems through our worldwide engineering facilities. As traction systems and standards have progressed, so have the protection requirements, for which Cooper Bussmann is continually developing new innovative products.

Cooper Bussmann has a range of standard products available for the protection of variety traction applications ranging from infrastructure protection to the arduous environment under which trains operate. Cooper Bussmann also offers a custom solution service to meet your specific application needs.

Cooper Bussmann has been a supplier, over many decades, to the majority of train manufacturers across Europe, North America and Asia.



Cooper Bussmann supplies many protection products for use in the signalling and infrastructure segments.

## Medium Voltage Fuse Links



### Features and Benefits

- Low watts loss, cool running and power dissipation
- DIN dimensioned for retrofitting troubleshooting
- Improve system reliability
- Reduces maintenance cost

### Typical Applications

- Protection of traction power supplies
- Protection of facility supply transformers

## Specialist DC Fuse Links



### Features and Benefits

- Excellent DC performance
- Low arc voltage and low energy let-through ( $I^2t$ )
- Low watts loss
- Widest range of specialist fuse links for power conversion

### Typical Applications

- DC common bus
- DC drives
- Power converters/rectifiers

## Standard Range of Fuse Links, Holders and Bases



### Features and Benefits

- Low watts loss
- Comprehensive range
- Globally compliant

### Typical Applications

- Protect cables
- Heating and Lighting
- Escalators and lifts

## Enbray Contactors



### Features and Benefits

- Reliability of design and operation
- Low running cost
- Custom designs to customer specifications

### Typical Applications

- Compressor motors
- Emergency lighting
- Load changeover

# Light Rail A

## Auxiliary Power and Distribution

Shed Supply  
Heating and Lighting

### Fuse Solutions

- FWK Series
- FWL/FWS Series
- SF75X Series
- NC Series
- RC Series
- CH127 Series\*

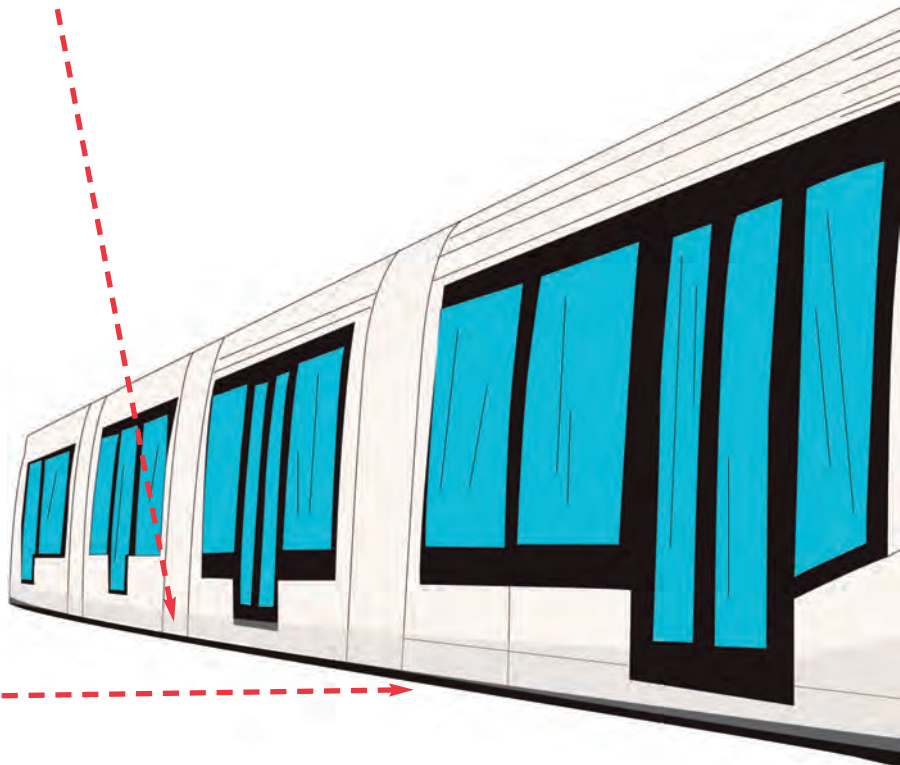


## Convertor Fuse Links

AC/DC - DC/AC Power Conversion

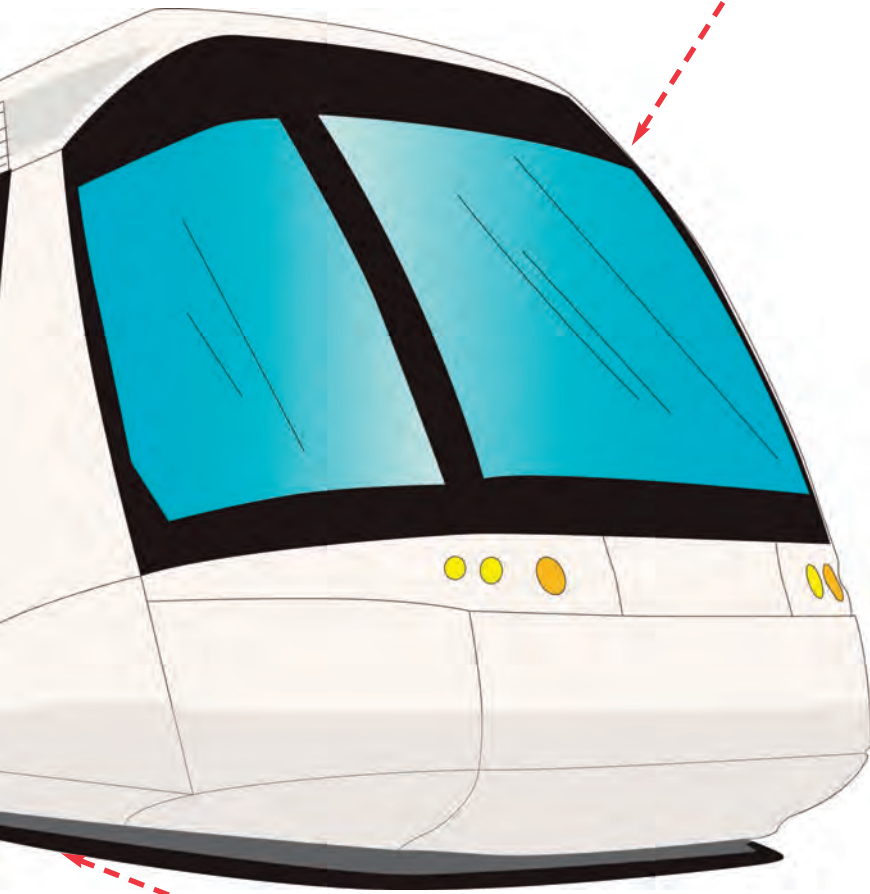
### Fuse Solutions

- 170M Series
- SF75X Series



\* Fuse Holders

# Applications



## Instrumentation and Control

Relays  
Lights  
Controls  
Meters

### Fuse Solutions

DMM Series  
FWL/FWS Series  
WRC Series  
054 Series  
CHM Series\*  
CH127 Series\*



## Main Electrical Feed

3rd rail/"Shoe-Fuse" Fuse Links

### Fuse Solutions

170E Series  
170M Series  
SF75X Series  
SF100X Series  
KB Series



# Heavy Rail

## Main Electrical Feed

Catenary High Wire  
Pantograph High Wire

### Fuse Solutions

170E Series  
170M Series  
ABWN Series



## Auxiliary Power and Distribution

Shed Supply  
Heating and Lighting  
Motors (Medium Voltage)

### Fuse Solutions

NBC Series  
WC Series  
RC Series  
FWL/FWS Series



## Convertor Fuse Links

AC/DC - DC/AC Power Conversion

### Fuse Solutions

170M Series  
SF75X Series



## Electrical C

Compresso

Enbray Co

2D Se  
130 Se



\* Fuse Holders

# Applications



## Drive Fuse Links

AC/DC - DC/AC Power Conversion

### Fuse Solutions

170M Series  
SF75X Series



## Instrumentation and Control

Relays  
Lights  
Controls  
Meters

### Fuse Solutions

DMM Series  
FWL/FWS Series  
WRC Series  
054 Series  
CHM Series\*  
CH127 Series\*



## Contactors

for Motors

## Contactors

Series  
Series



# Customer Assistance

## Customer Satisfaction Team

The Cooper Bussmann® Customer Satisfaction Team is available to answer questions regarding Cooper Bussmann products.

Europe calls can be made between:

Monday - Thursday 7.30 a.m. - 5.30 p.m. GMT

Friday 7.30 a.m. - 5.00 p.m. GMT

The Customer Service Satisfaction Team can be reached via:

- Phone: 00 44 (0) 1509 882 600
- Fax: 00 44 (0) 1509 882 786
- Email: bulesales@cooperindustries.com

## Application Engineering

Application Engineering assistance is available to all customers. The Application Engineering team is staffed by university-qualified electrical engineers who are available with technical and application support.

Europe calls can be made between:

Monday - Thursday 8.30 a.m. - 4.30 p.m. GMT

Friday 8.30 a.m. - 4.00 p.m. GMT

Application Engineering can be reached via:

- Phone: 00 44 (0) 1509 882 699
- Fax: 00 44 (0) 1509 882 794
- Email: buletechnical@cooperindustries.com

## Online Resources

Visit [www.cooperbussmann.com](http://www.cooperbussmann.com) for the following resources:

- Product cross reference
- Product profiles
- Online catalogues for the latest United States and European catalogues

Your authorised Cooper Bussmann Distributor is



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