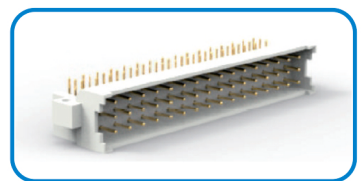


# 中航华亿 JOHUAYI



## Connectors & Sensors for rail transit



JOHUAYI(shenyang) Electronic Technology Co., Ltd  
[www.johuayi.com](http://www.johuayi.com)

## Profile

JOHUAYI is affiliated with Aviation Industries Corporation of China, and is a subsidiary corporation of JONHON. Established in 2008, JOHUAYI has been specializing in supply of electrical/optical/fluid connectors, sensors, and system integration & interconnection products.

As the key supplier for CRRC Group, Johuayi has been mastering the core technologies and production processes of connectors, sensors, and integrated products in the rail transit and high-end manufacturing areas.

## Certificate



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ISO/TS22163:2017

## Main customer

 中车长春轨道客车股份有限公司  
CRRC CHANGCHUN RAILWAY VEHICLES CO., LTD.

 中车株洲电力机车有限公司  
CRRC ZHUZHOU LOCOMOTIVE CO., LTD.

 中车青岛四方机车车辆股份有限公司  
CRRC QINGDAO SIFANG CO., LTD.

 中车唐山机车车辆有限公司  
CRRC TANGSHAN CO., LTD.

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CRRC NANJING PUZHEN CO., LTD.





  
中国通号

 北京交通大学  
BEIJING JIAOTONG UNIVERSITY

  
中国铁道科学研究院  
CHINA ACADEMY OF RAILWAY

  
西安沙尔特宝  
XI'AN SCHARTEBAU

  
北京交大微纳科技股份有限公司  
BEIJING JIAOTONG MICRO-NANO TECHNOLOGY CO., LTD.

  
新誉集团  
New United Group

 交控科技  
Traffic Control Technology

  
WAYCOM  
华高科技

  
UnitTEC  
众合科技

  
和利时  
HollySys

  
CASCO  
卡斯柯

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## XC158 series

### Introduction

- The hyperbolic wire spring female contact makes the connector easy to insert and remove and connect reliably
- The bayonet connect system, securely locked
- Five types of key positions
- Eight types of shells
- Ten types of contacts
- The contact and wire are soldered
- Installation holes provide compatibility for socket installation



### Application

Suitable for electrical connections in harsh environments such as immersion and humidity

### Technical performance

| No. | Project               | Parameter                                                        |
|-----|-----------------------|------------------------------------------------------------------|
| 1   | Specification         | GJB 2889                                                         |
| 2   | Qty of pins           | 1~129                                                            |
| 3   | Rated current         | 1 A~250 A                                                        |
| 4   | Withstanding voltage  | 1000 V/AC~3000 V/AC                                              |
| 5   | Insulation resistance | $\geq 5000 \text{ M}\Omega$                                      |
| 6   | Working temperature   | -55 °C~+200 °C                                                   |
| 7   | Mating cycles         | $\geq 1000$ times                                                |
| 8   | Salt spray resistance | 200 h~Aluminum alloy shell                                       |
|     |                       | 1000 h~Stainless steel shell                                     |
| 9   | Vibration             | Sinusoidal-frequency 10~2000Hz, acceleration 196m/s <sup>2</sup> |
| 10  | Impact                | Acceleration 980m/s <sup>2</sup>                                 |
| 11  | Degree of protection  | IP68                                                             |

## XC158A series

### Introduction

- The hyperbolic wire spring female contact makes the connector easy to insert and remove and connect reliably
- The bayonet connect system, securely locked
- Five types of key positions
- Four types of contacts
- The contact and wire are crimped
- Installation holes provide compatibility for socket installation



### Application

Suitable for electrical connections in harsh environments such as immersion and humidity

### Technical performance

| No. | Project               | Parameter                                                      |
|-----|-----------------------|----------------------------------------------------------------|
| 1   | Specification         | GJB 2889                                                       |
| 2   | Qty of pins           | 1~55                                                           |
| 3   | Rated current         | 5 A~40 A                                                       |
| 4   | Withstanding voltage  | 1500 V/AC~3000 V/AC                                            |
| 5   | Insulation resistance | $\geq 5000 \text{ M}\Omega$                                    |
| 6   | Working temperature   | -55 °C~+200 °C                                                 |
| 7   | Mating cycles         | $\geq 1000$ times                                              |
| 8   | Salt spray resistance | 200 h~Aluminum alloy shell<br>1000 h~Stainless steel shell     |
| 9   | Vibration             | Sinusoidal-frequency 10~2000Hz, acceleration $196\text{m/s}^2$ |
| 10  | Impact                | Acceleration $980\text{m/s}^2$                                 |
| 11  | Degree of protection  | IP68                                                           |

## XCY series

### Introduction

- The bayonet connect system, securely locked
- Five types of key positions
- Four types of contacts
- The contact and wire are crimped



### Application

Suitable for electrical connections in harsh environments

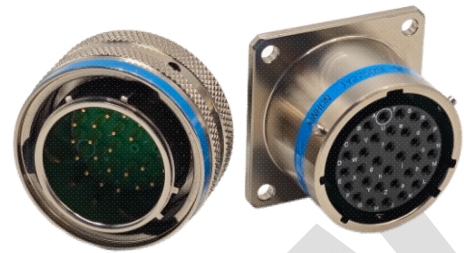
### Technical performance

| No. | Project               | Parameter                   |
|-----|-----------------------|-----------------------------|
| 1   | Specification         | GJB 2889                    |
| 2   | Qty of pins           | 1~55                        |
| 3   | Rated current         | 5 A~40 A                    |
| 4   | Withstanding voltage  | 1500 V/AC~3000 V/AC         |
| 5   | Insulation resistance | $\geq 5000 \text{ M}\Omega$ |
| 6   | Working temperature   | -40 °C~+125 °C              |
| 7   | Mating cycles         | $\geq 750$ times            |
| 8   | Salt spray resistance | 96 h / 240 h                |
| 9   | Vibration             | IEC 61373-2010-I-B          |
| 10  | Impact                | IEC 61373-2010-I-B          |

## GJB599 series

### Introduction

- The bayonet connect system, securely locked
- Five types of key positions
- Six types of contacts
- The contact and wire can be soldered or crimped



### Application

Suitable for electrical connections in strong vibration, sandstorms, and humid environments

### Technical performance

| No. | Project               | Parameter                                                        |
|-----|-----------------------|------------------------------------------------------------------|
| 1   | Specification         | MIL-DTL-38999K                                                   |
| 2   | Qty of pins           | 1~128                                                            |
| 3   | Rated current         | 5 A~40 A                                                         |
| 5   | Withstanding voltage  | 1000 V/AC~2300 V/AC                                              |
| 6   | Insulation resistance | ≥5000 MΩ                                                         |
| 7   | Working temperature   | -65 °C~+200 °C                                                   |
| 8   | Mating cycles         | ≥500 times                                                       |
| 9   | Salt spray resistance | 48 h / 96 h / 500 h / 1000 h                                     |
| 10  | Vibration             | Sinusoidal-frequency 10-2000Hz, acceleration 196m/s <sup>2</sup> |
| 11  | Impact                | Acceleration 980m/s <sup>2</sup>                                 |

## CT63 series

### Introduction

- The bayonet connect system, securely locked
- Five types of key positions
- The contact and wire are crimped



### Application

Suitable for electrical connections in harsh environments

### Technical performance

| No. | Project               | Parameter                                                       |
|-----|-----------------------|-----------------------------------------------------------------|
| 1   | Specification         | Q/21EJ623                                                       |
| 2   | Qty of pins           | 3~48                                                            |
| 3   | Rated current         | 13 A                                                            |
| 4   | Withstanding voltage  | 2000 V/AC                                                       |
| 5   | Insulation resistance | ≥5000 MΩ                                                        |
| 6   | Working temperature   | -40 °C~+105 °C                                                  |
| 7   | Mating cycles         | ≥500 times                                                      |
| 8   | Salt spray resistance | 96 h                                                            |
| 9   | Vibration             | Sinusoidal-frequency 10-500Hz, acceleration 100m/s <sup>2</sup> |
| 10  | Degree of protection  | IP68                                                            |

## KY series

### Introduction

- The bayonet connect system, securely locked
- Five types of key positions
- Three types of contacts
- The contact and wire are crimped

### Application

Suitable for electrical connections in harsh environments



### Technical performance

| No. | Project               | Parameter                                                     |
|-----|-----------------------|---------------------------------------------------------------|
| 1   | Specification         | MIL-DTL-5015<br>NFF61030                                      |
| 2   | Qty of pins           | 1~60                                                          |
| 3   | Rated current         | 13 A~46 A                                                     |
| 4   | Withstanding voltage  | 2000 V/AC~7000 V/AC                                           |
| 5   | Working temperature   | -55 °C~+125 °C                                                |
| 6   | Mating cycles         | ≥500 times                                                    |
| 7   | Salt spray resistance | 96 h                                                          |
| 8   | Vibration             | Sinusoidal-frequency 5-150Hz, acceleration 60m/s <sup>2</sup> |
| 9   | Impact                | Acceleration 50m/s <sup>2</sup>                               |
| 10  | Degree of protection  | IP67                                                          |

## M12 series

### Introduction

- The screw and push-pull connect systems
- Three types of codes
- Three types of contacts
- The contact and wire are crimped or soldered



### Application

Suitable for communication interfaces in infrastructure, industrial automation, rail transit, and other fields

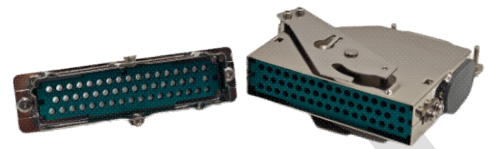
### Technical performance

| No. | Project               | Parameter                |
|-----|-----------------------|--------------------------|
| 1   | Specification         | IEC 61076-2              |
| 2   | Qty of pins           | 4-5-8                    |
| 3   | Code                  | A-D-X                    |
| 4   | Rated current         | 2A / 5A                  |
| 5   | Withstanding voltage  | 800 V/AC~1500 V/AC       |
| 6   | Insulation resistance | $\geq 100\text{M}\Omega$ |
| 7   | Working temperature   | -40 °C~+85 °C            |
| 8   | Mating cycles         | $\geq 500$ times         |
| 9   | Salt spray resistance | $\geq 96$ h              |
| 10  | Degree of protection  | IP67                     |

## MY35 QE series

### Introduction

- Seven types of contacts arrangement
- Two types of contacts
- The contact and wire are crimped



### Application

Suitable for electrical connections inside rail vehicles

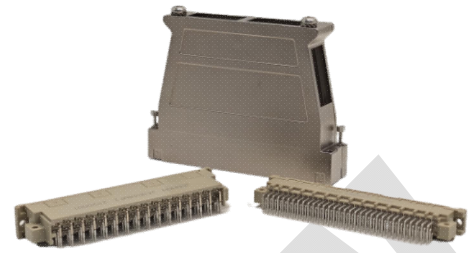
### Technical performance

| No. | Project               | Parameter                 |
|-----|-----------------------|---------------------------|
| 1   | Specification         | GB/T 34119                |
| 2   | Qty of pins           | 27-28-29-30-34-44-50      |
| 3   | Rated current         | 13 A / 23 A               |
| 4   | Withstanding voltage  | 2500 V/AC                 |
|     | Insulation resistance | $\geq 5000\text{M}\Omega$ |
| 5   | Working temperature   | -55 °C ~ +125 °C          |
| 6   | Mating cycles         | $\geq 500$ times          |
| 7   | Salt spray resistance | 96 h                      |
| 8   | Vibration             | IEC 61373-2010-I-B        |
| 9   | Impact                | IEC 61373-2010-I-B        |

## DIN41612 series

### Introduction

- Three types of contacts
- The contact and wire are crimped



### Application

Suitable for electrical connections in PCB

### Technical performance

| No. | Project               | Parameter                                       |
|-----|-----------------------|-------------------------------------------------|
| 1   | Specification         | DIN41612<br>IEC-60603-2                         |
| 2   | Qty of pins           | 48-64-96                                        |
| 3   | Rated current         | 2 A-6 A-15 A,etc.                               |
| 4   | Withstanding voltage  | 1000 V/AC-1500 V/AC                             |
| 5   | Insulation resistance | $\geq 1000 \text{ M}\Omega$                     |
| 6   | Working temperature   | $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ |
| 7   | Mating cycles         | $\geq 500$ times                                |
| 8   | Vibration             | IEC 61373-2010-I-B                              |
| 9   | Impact                | IEC 61373-2010-I-B                              |

## D-sub series



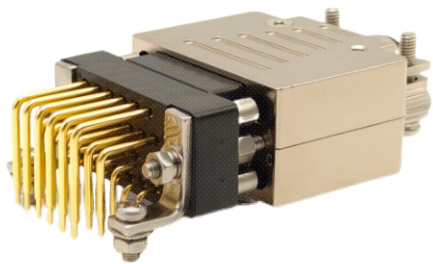
### Application

Suitable for electrical connections in PCB

### Technical performance

| No. | Project               | Parameter          |
|-----|-----------------------|--------------------|
| 1   | Specification         | IEC60807           |
| 2   | Qty of pins           | 9-15-25-37-50      |
| 3   | Rated current         | 5A                 |
| 4   | Withstanding voltage  | 1000 V/AC          |
| 5   | Insulation resistance | 5000 MΩ            |
| 6   | Working temperature   | -55 °C ~ +125 °C   |
| 7   | Mating cycles         | ≥500 times         |
| 8   | Salt spray resistance | 48 h               |
| 9   | Vibration             | IEC 61373-2010-I-B |
| 10  | Impact                | IEC 61373-2010-I-B |

## TJ19 series



### Application

Suitable for electrical connections in PCB

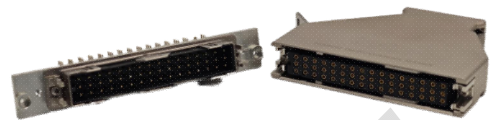
### Technical performance

| No. | Project               | Parameter       |
|-----|-----------------------|-----------------|
| 1   | Specification         | Q/21EJ775       |
| 2   | Qty of pins           | 24-28-36-50     |
| 3   | Rated current         | 5A              |
| 4   | Withstanding voltage  | 1500 V/AC       |
| 5   | Insulation resistance | 5000 MΩ         |
| 6   | Working temperature   | -55 °C ~+120 °C |
| 7   | Mating cycles         | ≥500 times      |
| 8   | Salt spray resistance | 48 h            |

## TJ22 series

### Introduction

- The bayonet connect system, securely locked
- Five types of key positions
- Three types of contacts
- The contact and wire are crimped



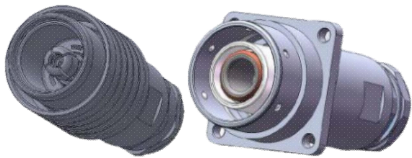
### Application

1. Traction Control Unit (TCU)
2. Remote Input/Output Unit (RIOM)
3. Vehicle ground wireless transmission device
4. Automatic Train Protection System (ATP)
5. Train Control Center (TCC)
6. Dispatch Center
7. Electronic Brake Control Unit (EBCU)
8. Central Control Unit (CCU)
9. Event Recorder Module (ERM)
10. Automatic Train Operation System (ATO)
11. Computer Interlocking System
12. Radio Blocking Center (RBC)

### Technical performance

| No. | Project               | Parameter          |
|-----|-----------------------|--------------------|
| 1   | Specification         | T/CECA 43-2020     |
| 2   | Qty of pins           | 48-64              |
| 3   | Rated current         | 5A                 |
| 4   | Withstanding voltage  | 1500 V/AC          |
| 5   | Working temperature   | -40 °C ~ +105 °C   |
| 6   | Mating cycles         | ≥500 times         |
| 7   | Salt spray resistance | 48 h               |
| 8   | Vibration             | IEC 61373-2010-I-B |
| 9   | Impact                | IEC 61373-2010-I-B |

## MY30 series



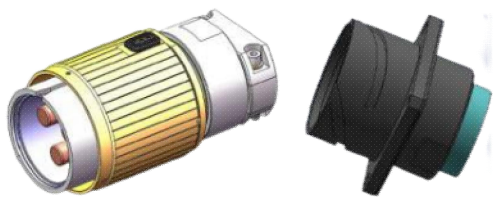
### Application

Power transmission for vehicles

### Technical performance

| No. | Project               | Parameter                     |
|-----|-----------------------|-------------------------------|
| 1   | Specification         | TB/T 2761<br>GJB 1217A-2009   |
| 2   | Qty of pins           | 1                             |
| 3   | Rated current         | 210A-240A-490A-630A           |
| 4   | Withstanding voltage  | 3250 V/AC-6000 V/AC-8000 V/AC |
| 5   | Working temperature   | -55 °C~+125 °C                |
| 6   | Mating cycles         | ≥1000 times                   |
| 7   | Salt spray resistance | 240 h                         |
| 8   | Vibration             | IEC 61373-I-B                 |
| 9   | Impact                | IEC 61373-I-B                 |
| 10  | Degree of protection  | IP68                          |

## MY66 series



### Application

Power transmission for vehicles

### Technical performance

| No. | Project               | Parameter                                           |
|-----|-----------------------|-----------------------------------------------------|
| 1   | Specification         | TB/T 2761<br>GJB 1217A-2009                         |
| 2   | Qty of pins           | 1+2                                                 |
| 3   | Rated current         | 340A (95mm <sup>2</sup> ) +2× (1.5mm <sup>2</sup> ) |
| 4   | Withstanding voltage  | 5400 V/AC                                           |
| 5   | Working temperature   | -55 °C ~ +125 °C                                    |
| 6   | Mating cycles         | ≥700 times                                          |
| 7   | Salt spray resistance | 240 h                                               |
| 8   | Vibration             | IEC 61373-III                                       |
| 9   | Impact                | IEC 61373-III                                       |
| 10  | Degree of protection  | IP67                                                |

## MY68 series



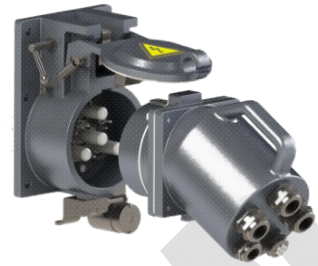
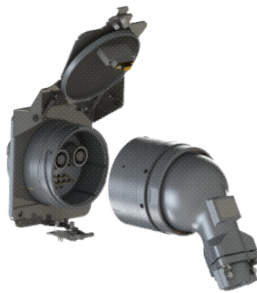
### Application

Power transmission for vehicles

### Technical performance

| No. | Project               | Parameter                   |
|-----|-----------------------|-----------------------------|
| 1   | Specification         | TB/T 2761<br>GJB 1217A-2009 |
| 2   | Qty of pins           | 1                           |
| 3   | Rated current         | 500 A                       |
| 4   | Withstanding voltage  | 3000 V/AC                   |
| 5   | Working temperature   | -55 °C~+125 °C              |
| 6   | Mating cycles         | ≥750 times                  |
| 7   | Salt spray resistance | 96 h                        |
| 8   | Vibration             | IEC 61373-I-B               |
| 9   | Impact                | IEC 61373-I-B               |
| 10  | Degree of protection  | IP67                        |

## MY150 series



### Application

Power charging for vehicles

### Technical performance

| No. | Project              | Parameter                                                 |
|-----|----------------------|-----------------------------------------------------------|
| 1   | Specification        | GB/T 34119-2017                                           |
| 2   | Qty of pins          | power 2+signal 10<br>power 2+signal 4<br>power 4+signal 6 |
| 3   | Rated current        | 330 A-450 A-530 A                                         |
| 4   | Withstanding voltage | 3000 V/AC-3500 V/AC-7000 V/AC                             |
| 5   | Working temperature  | -55 °C~+125 °C                                            |
| 6   | Mating cycles        | ≥750 times                                                |
| 7   | Degree of protection | IP67                                                      |

## MY153 series



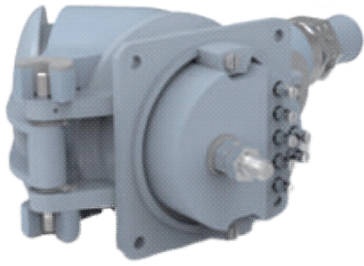
### Application

Power transmission for vehicles

### Technical performance

| No. | Project               | Parameter                                                                     |
|-----|-----------------------|-------------------------------------------------------------------------------|
| 1   | Specification         | TB/T 2761<br>GJB 1217A-2009                                                   |
| 2   | Qty of pins           | 1                                                                             |
| 3   | Rated current         | 105 A~35mm <sup>2</sup><br>210 A~70mm <sup>2</sup><br>360 A~95mm <sup>2</sup> |
| 4   | Withstanding voltage  | 6000 V/AC                                                                     |
| 5   | Insulation resistance | ≥5000MΩ                                                                       |
| 6   | Working temperature   | -55 °C~+125 °C                                                                |
| 7   | Mating cycles         | ≥750 times                                                                    |
| 8   | Salt spray resistance | 96 h                                                                          |
| 9   | Vibration             | IEC 61373-I-B                                                                 |
| 10  | Impact                | IEC 61373-I-B                                                                 |
| 11  | Degree of protection  | IP67                                                                          |

## CT88 series



### Application

Power charging for urban rail vehicles

### Technical performance

| No. | Project               | Parameter                                                        |
|-----|-----------------------|------------------------------------------------------------------|
| 1   | Specification         | Q/21EJ821                                                        |
| 2   | Qty of pins           | power 2+signal 10                                                |
| 3   | Rated current         | Φ9~30 A<br>Φ26~255 A                                             |
| 4   | Withstanding voltage  | Φ9~2500 V/AC<br>Φ26~6000 V/AC                                    |
| 5   | Insulation resistance | ≥5000 MΩ                                                         |
| 6   | Working temperature   | -40 °C ~ +105 °C                                                 |
| 7   | Mating cycles         | ≥500 times                                                       |
| 8   | Salt spray resistance | 96 h                                                             |
| 9   | Vibration             | Sinusoidal-frequency 10-2000Hz, acceleration 147m/s <sup>2</sup> |
| 10  | Degree of protection  | IP66                                                             |

## CT88A series



### Application

Power charging for urban rail vehicles

### Technical performance

| No. | Project               | Parameter                      |
|-----|-----------------------|--------------------------------|
| 1   | Specification         | Q/21EJ3609                     |
| 2   | Qty of pins           | power 2+signal 10              |
| 3   | Rated current         | Φ18~400 A<br>12#~20 A          |
| 4   | Withstanding voltage  | Φ18~7000 V/AC<br>12#~1000 V/AC |
| 5   | Insulation resistance | ≥500 MΩ                        |
| 6   | Working temperature   | -40 °C~+120 °C                 |
| 7   | Mating cycles         | ≥500 times                     |
| 8   | Salt spray resistance | 96 h                           |
| 9   | Vibration             | IEC 61373-I-B                  |
| 10  | Impact                | IEC 61373-I-B                  |
| 11  | Degree of protection  | IP65                           |

## CT88B series



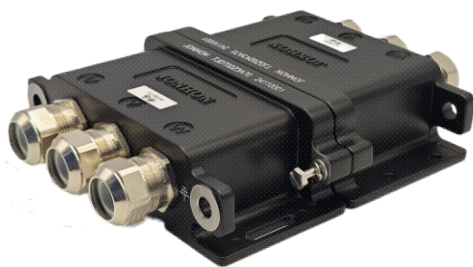
### Application

Power charging for standardized high-speed trains

### Technical performance

| No. | Project               | Parameter                             |
|-----|-----------------------|---------------------------------------|
| 1   | Specification         | Q/21EJ5026                            |
| 2   | Qty of pins           | power 4+signal 2                      |
| 3   | Rated current         | Φ6~30 A<br>Φ15.9/Φ17.9~450 A          |
| 4   | Withstanding voltage  | Φ6~2500 V/AC<br>Φ15.9/Φ17.9~4000 V/AC |
| 5   | Insulation resistance | ≥5000 MΩ                              |
| 6   | Working temperature   | -55 °C~+125 °C                        |
| 7   | Mating cycles         | ≥1500 times                           |
| 8   | Vibration             | IEC 61373-I-B                         |
| 9   | Impact                | IEC 61373-I-B                         |
| 10  | Degree of protection  | IP67                                  |

## TJD series



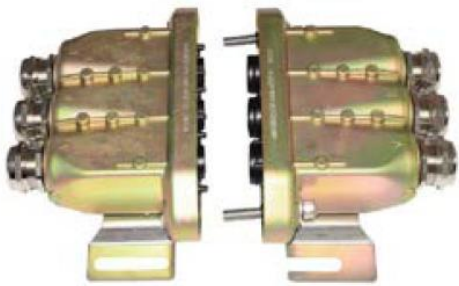
### Application

Power transmission between converter and motor for urban rail vehicles

### Technical performance

| No. | Project               | Parameter                           |
|-----|-----------------------|-------------------------------------|
| 1   | Specification         | GB/T 34119-2017                     |
| 2   | Qty of pins           | 3                                   |
| 3   | Rated current         | Φ20~200 A<br>Φ20(internal Φ8)~350 A |
| 4   | Withstanding voltage  | 6000 V/AC                           |
| 5   | Insulation resistance | ≥5000 MΩ                            |
| 6   | Working temperature   | -40 °C~+125 °C                      |
| 7   | Salt spray resistance | 240 h                               |
| 8   | Mating cycles         | ≥500 times                          |
| 9   | Vibration             | IEC 61373-I-B                       |
| 10  | Impact                | IEC 61373-I-B                       |
| 11  | Degree of protection  | IP67                                |

## MY58 series



### Application

Power transmission between converter and motor for rail vehicles

### Technical performance

| No. | Project               | Parameter      |
|-----|-----------------------|----------------|
| 1   | Specification         | NF F61-030     |
| 2   | Qty of pins           | 3/4            |
| 3   | Rated current         | 100A~400A      |
| 4   | Withstanding voltage  | 9500 V/AC      |
| 5   | Insulation resistance | ≥5000 MΩ       |
| 6   | Working temperature   | -40 °C~+100 °C |
| 7   | Salt spray resistance | 96 h           |
| 8   | Mating cycles         | ≥500 times     |
| 9   | Vibration             | IEC 61373-I-B  |
| 10  | Impact                | IEC 61373-I-B  |
| 11  | Degree of protection  | IP68           |



**WORLD STARTS WITH  
CONNECTION**

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