RAIL COMPONENTS AND APPLICATION GUIDE

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TE CONNECTIVITY CAN HELP YOUR NEXT STOCK TO ROLL AND YOUR COMMUNICATION TO RUN

The railway industry is undergoing rapid changes in the quest for energy efficiency, increase of economies, reliability, effectiveness and quality of railway transport. Urbanization, growing populations and increasing environmental concerns are all factors leading to an increased demand for railway public transportation. Today's railroads evolve into an evermore high-tech industry. Whether it is rolling stock, services, system and signalling, including railway related telecommunication equipment, and infrastructure the same challenges are being faced throughout this complex market. For over 50 years, TE Connectivity has helped make it easier and more productive to increase capabilities, ensure reliability and control maintenance costs for on-board railway applications and signalling.

Early Involvement Pays Off In Competitive Advantage

With approximately 7,000 engineers at 21 global design centres, plus 100 manufacturing facilities and operations in over 50 countries globally, we put a premium on innovation when it comes to helping companies solve tough design problems. Talking to us early on in your design cycle will give you the full benefit of our expertise, to help you:

- Shorten the design cycle
- Reduce costs
- Increase reliability
- Design for manufacturability

In short, we can help you achieve a sustainable competitive advantage.

Our commitment to advanced engineering and world-class manufacturing delivers innovation that can advance any project - from showing you the best existing products to offering a value-added solution, or even designing a new product.

TE Connectivity is one of the world's largest suppliers of passive electronic components, including connectors and interconnect systems, relays, switches, touchscreens, sensors, filters and wire and cable.

TE Connectivity's ability to serve your present and future requirements is realised through the synergies of a strong R&D programme and our expertise in materials science, product design and process engineering, all supported by our network of knowledgeable application engineers, sales representatives and customer service personnel.

UIC 552 Series

High power single pole connector with automatic cover locking. Includes one each of:

- plug with crimp contact for UIC 552 cable 185mm^2
- distribution box with lateral or back cable outlets
- junction box with automatic cover, safety lock, lateral or back cable outlets
- intermediate derivation box
- dummy socket with cover

Product Features

- Nominal current - up to 800A (with 185mm^2 cable)
- Nominal voltage - 1500v or 3000v DC or AC
- Protection index - IP56 according to EN 60 529
- Temperature range - from -50°C to +120°C
- Salt spray resistance - 96 hours (more on request)
- Endurance - > 500 coupling cycles
- Fire behaviour - following NF F 16-101 & NF F 16-102
- Connection of the main line on railway rolling stock (UIC)

Standards & Quality Approvals

- DB approval
- SNCB/NMBS approval
- SNCF approval
- TRENITALIA approval
- UIC 552 standard compliance

Technology/Coupling System

- High power

UIC 568 Series

Pull apart circular connector with painted aluminium socket, plus automatic cover and composite plug. Audio coupler connection for rolling stock. Includes one receptacle shell with removable insert, equipped with 13 or 18 crimp contacts for UIC 568 or UIC 558 cables. Also includes one plug with removable insert and one dummy socket.

Product Features

- Nominal current - 5A
- Service voltage - 110v
- Test voltage - 2000v
- Salt spray resistance - 96 hours (more on request)
- Temperature range - from -40°C to +120°C
- Protection Index - IP67 according to EN 60 529
- Endurance - > 500 coupling cycles
- Pull apart connector
- Fire behaviour - following NF F 16-101 & NF F 16-102
- RoHS compliance

Standards & Quality Approvals

- DB approval
- SNCB/NMBS approval
- SNCF approval
- TRENITALIA approval
- UIC 568 and UIC 558 standard compliance

UIC541 Series

Product Features

- Test voltage - 1500v
- Temperature range - from -40°C to +100°C
- Service voltage - 72v
- Salt spray resistance - 96 hours (more on request)
- Endurance - 500 mating cycles
- Fire behaviour - requirement 2 following NF F 16-101 and NF F 16-102
- RoHS compliance

Standards & Quality Approvals

- DB approval
- SNCB/NMBS approval
- SNCF approval
- TRENITALIA approval
- UIC 541-5 standard compliance

Technology/Coupling System

- Environmentally Sealed