SAE J-3105™ Heavy-Duty Conductive Automatic Charging Recommended Practice

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SAE J-3105 Conductive Automated Connection Devices

• The four Recommended Practices were published in January 2020 producing a family of documents connected together by a main document.

• The main document J-3105 will contain the significant common parts of the system (about 90%). It will include:
  • Electrical Interface
  • Power Flow (Voltage and Currents) (1000V and 600 A)
  • Communications
  • Safety
  • Systems

• The supplemental documents specify the detail of the connection including conductor and bus geometry.

These documents enable the Transit Industry to be interoperable from OEM to OEM.

EPRI has lead this SAE committee since its inception.
Together...Shaping the Future of Electricity
Automated Connectors

SAE J-3105-1
Infrastructure-mounted Cross Rail Connection

SAE J-3105-2
Vehicle-mounted Pantograph Connection

SAE J-3105-3
Enclosed Pin and Socket Connection
Automated Connectors SAE J-3105 Recommended Practice

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J-3105 Recommended Practice

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