

APPLICATION NOTE

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FRCIR Connector with M12 Contacts

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The Challenge

To provide system connections for data transmission in railway applications which group multiple cables of Ethernet / MVB lines into the same connector.



New VEAM M12 contacts within insert of FRCIR connector, for inter-vehicle application.

The ITT Solution ...

ITT ICS answered the challenge with new M12 contacts mounted into a CIR connector series hardware. The four conductor wires and braid of shielded cables are integrated into the M12 contact. The special plastic insert and connector accessories can regroup multiple M12 contacts and cables in the same connector.

Applications

- Railway system
- Transportation interconnects
- Data bus network system

Product Features

- M12 type contacts, copper alloy material and plastic inserts
- Connector type FRCIR size 32
- Cables tested and qualified at frequency of 1MHz, 10MHz, 100MHz
 - With Ethernet lines 100 Ω
 - With MVB lines 120 Ω
- According to VG95234 where applicable
- Aluminum alloy shells with black epoxy urethane varnish (RoHS compliant)
- Inserts are Plastic material, UL94-VO and meets NF F 16-101/16-102 standards
- Meets IP67 in a mated condition with the appropriate accessories
- Operating Temperature of -40° C to 125° C

Benefit to the Customer

- Cost effective solution for multiple shielding
- Extra sealing
- Suitable for harsh very demanding applications

For application assistance, please contact:

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