

# Drive your European Train Control System (ETCS) retrofit with HARTING

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The European Train Control System (ETCS) allows trains to run without traditional trackside signals. Instead, a series of communication systems monitor the train's position and speed and relays information to the driver's cab.

New locomotives are already being designed and equipped with the appropriate technology. However, older rolling stock will need upgrading and retrofitting with cabling, wiring and connectors to run the ETCS system. HARTING have a wide range of rail-approved products and solutions to support this challenge.

Jumper cables smoothly transmit power, data and signals throughout the entire train, ideal for ensuring networks are fast enough to meet the demands of ETCS. The Han-Modular® range, including the new smaller Domino modules, allows you to create a versatile solution by combining individual inserts for different transmission media into standard-sized industrial connector housings. The series offers over 250 different inserts, enabling a wide range of customisable options.

HARTING can produce these project-specific jumper cable assemblies to suit your needs, including installing components, routing cable harnesses and fabrication. Their design team can also create a 3D

CAD visualisation to ensure absolute accuracy before manufacturing begins.

They have recently retained their prestigious Silver Quality Performance Level award from the International Railway Industry Standard (IRIS). Silver Performance is currently the second highest performance level issued by IRIS and is a significant achievement for HARTING, making them one of only two UK companies to receive Silver status and putting them in the top 5% globally of all IRIS certified companies.

The HARTING manufacturing facility also holds ISO 9001 certification for Quality Management, the ISO 14001 Environmental Standard and UL certification for Wiring Harnesses ZPFW2 / ZPFW8.

To learn more about HARTING solutions for the rail industry, please visit

<https://www.harting.com/UK/en-gb/markets/transport%20engineering> or email via [salesuk@harting.com](mailto:salesuk@harting.com).

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