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The Øresund Link

Eupen delivers 40km radiating cable
first use of Eupen RMC-type radiating cables

Customer SAIT Radio Holland on behalf of The Swedish and Danish Governments

Situation The Øresund Link connects the regions of Scania (Sweden) and Zealand (Denmark) and comprises a combined bridge and tunnels complex. The bridge (7.8 Km) is the world's strongest two deck cable stay bridge, built to carry a 2 x 2 motorway and two railway tracks. The Drogden tunnel (on the Danish side) (4 Km) is the world's largest undersea tunnel, in terms of volume, with five parallel tunnel tubes. Peberholm (4 Km) is the artificial island linking the bridge with the tunnel, and was constructed by means of the dredged material from the seabed. The artificial peninsula at Kastrup accommodates the tunnel portal. Also, the Lernacken tunnel (on the Swedish side) is a small 700 m tunnel for railway only.



Challenges The multitude of systems and technologies requiring interconnection, as well as the large number of different user groups involved, were the primary challenges for SAIT Radio Holland when designing and planning the advanced tunnel communications solution for the Øresund Link.

Solution

The solution provided by SAIT Radio Holland seamlessly integrates various technologies for security services (Danish/Swedish Public Safety, and ambulance and emergency services), Train Radio (LSR/STR, GSM-R), and Commercial Services (FM broadcast channels, and mobile operators (GSM 900/1800) onto Eupen Radiating Cables.

Quote by the Customer

"We chose Eupen radiating cables because of their superior performance and Eupen's experience and know-how in wireless communications solutions in confined areas. One of the challenges of the radio communication system at the Øresund link was the cross-border nature of the project, since the various emergency services, like Fire Brigade, Police etc., all used different systems to communicate. Eupen's radiating cables play a major role in enabling the emergency services of both countries to communicate safely, securely, and uninterruptedly via one system."

D Jeegers

System Engineer

Contact

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