

SWCT Technical Information

Electrical Continuity

Marco Cable Management engaged the services of York EMC, part of The University of York, to measure the resistance of Steel Wire Cable Tray and a cable tray coupler.

The resistance tests were in comparison with requirements EN537:2007 clause 11.1, electrical continuity [1].

An electric current was passed through the system in order to measure the resistance of the coupler. The lower the resistance, the better the electrical continuity.

The maximum cable tray impedance per metre is set at $5\text{m}\Omega$, while the value recorded using Marco Steel Wire Cable Tray is $1.3\text{m}\Omega$, over 3 times more effective than the requirement specified.

Under the requirements of the standard, couplers must have a maximum resistance of $50\text{m}\Omega$. On average, Marco Cable Management couplers were found to have a resistance of $0.44\text{m}\Omega$, over 100 times more effective than the specified requirement.

The Steel Wire Cable Tray and Coupler exceeded the requirements of the EN 61537:2007 standard for the electrical continuity clause 11.1.

