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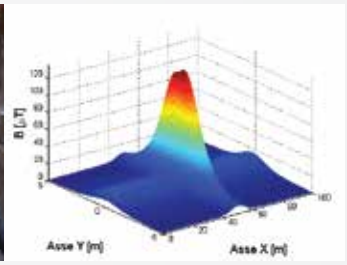
# HIGH MAGNETIC COUPLING PASSIVE LOOPS (HMCPL)

## Problem description

In High Voltage cable the Junction Area is a critical part because the distance among the cables increases and the magnetic field can overcome also the European Recommendation (1999) limit of 100 μT.

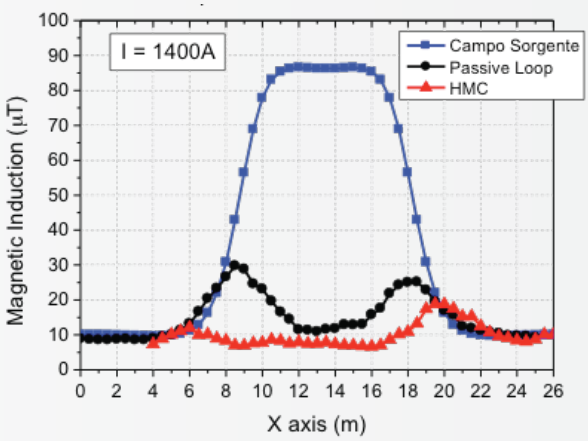



## Solution

The proposed solution is based on an innovative method called High Magnetic Coupling Passive Loops (HMCPL). The idea is very simple: a toroidal core induce in the shielding cables a current which is in phase opposition to the source. The installation is very fast compared to the competitor solution (less then 4 ours instead of 2-3 days). Moreover the cost is lower and the performances much better.
The solution is protected by an international patent.


## Results

The system presents a strong reduction of the magnetic flux densit above the power line. The comparison with standard passive loop shows that the HMCPL technology is much better.
The solution has been adopted in several application for Terna spa and for the main cable producers (e.g. Nexans, NKT, etc.).

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