

HIGHSPEED & EMC

For PCB Connectors

EMC

What is interfering with the connection?

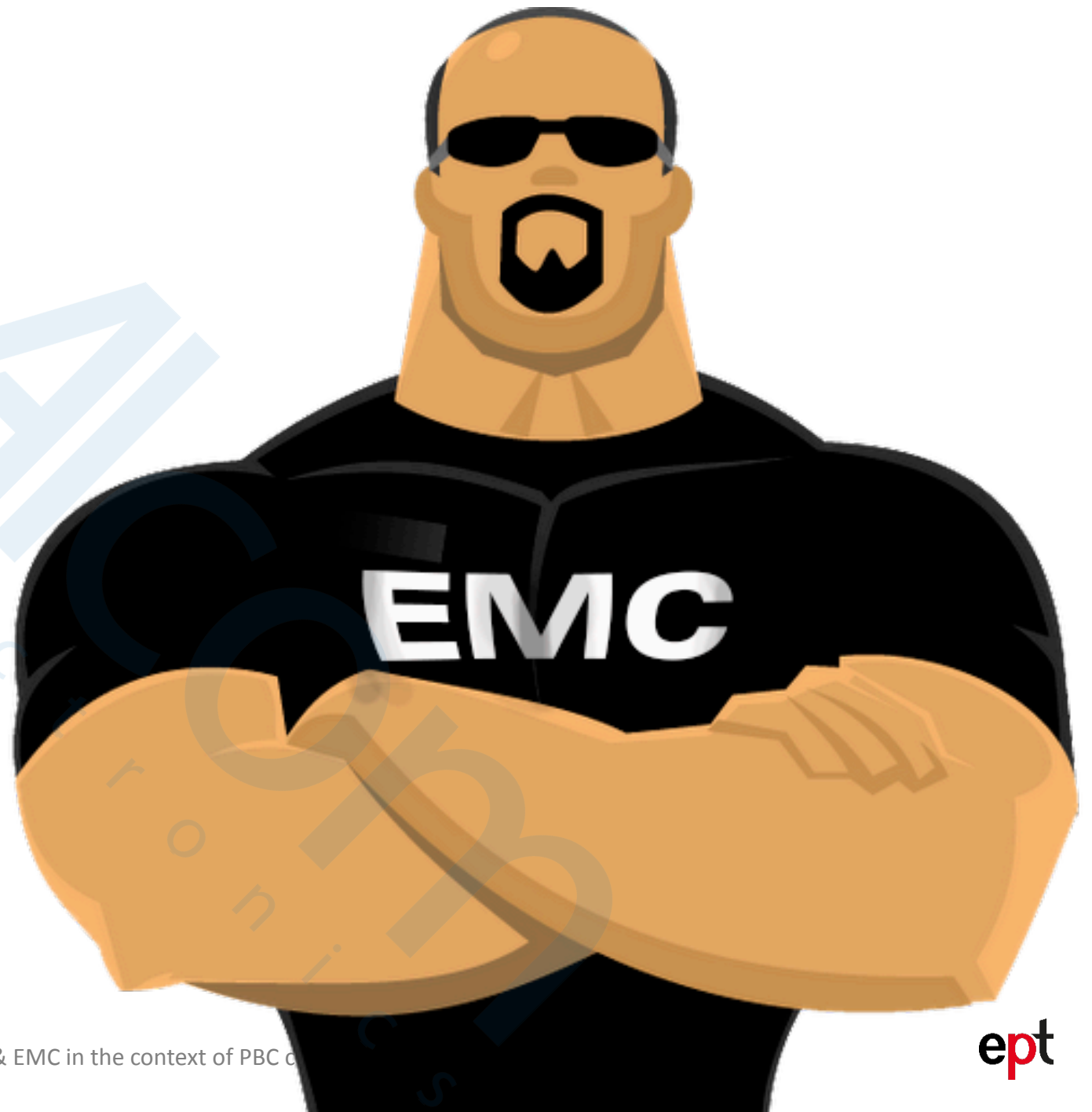
Electromagnetic radiation can interfere with transmissions



Highspeed vs. EMC

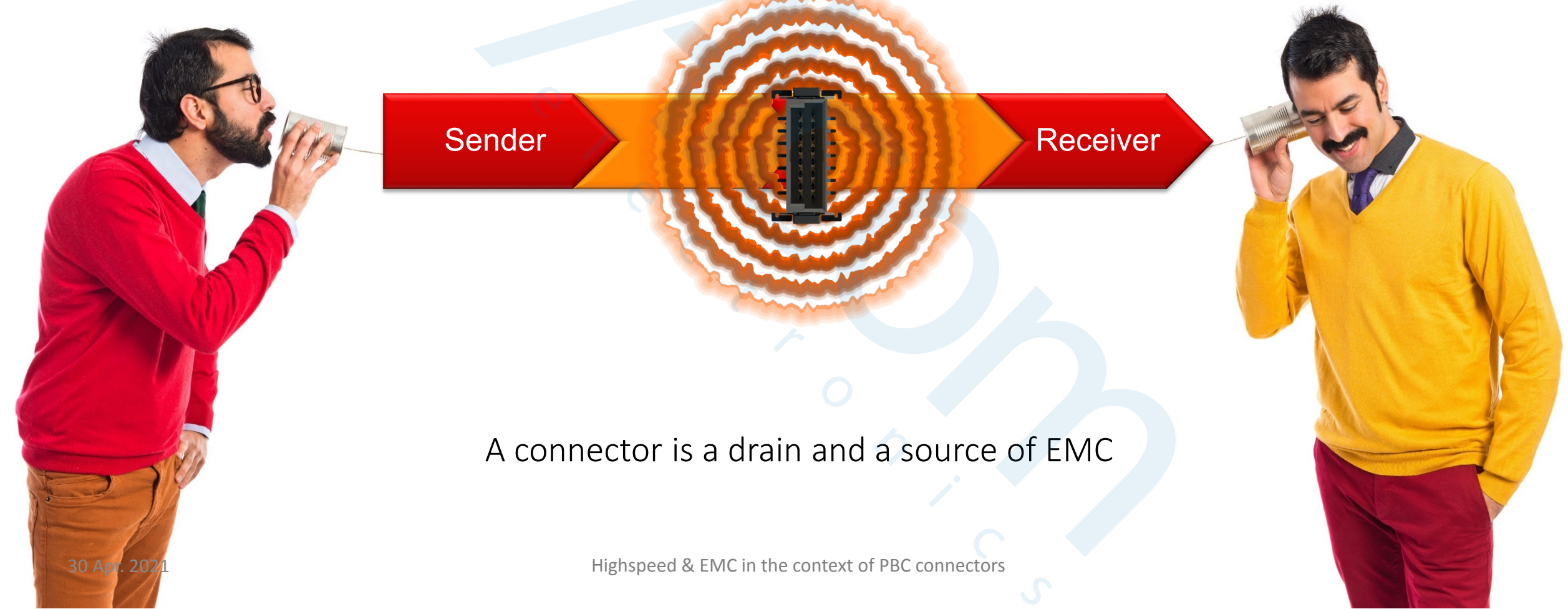
How can I protect my highspeed signal?

EMC is the answer!



EMC

The basics



A connector is a drain and a source of EMC

EMC

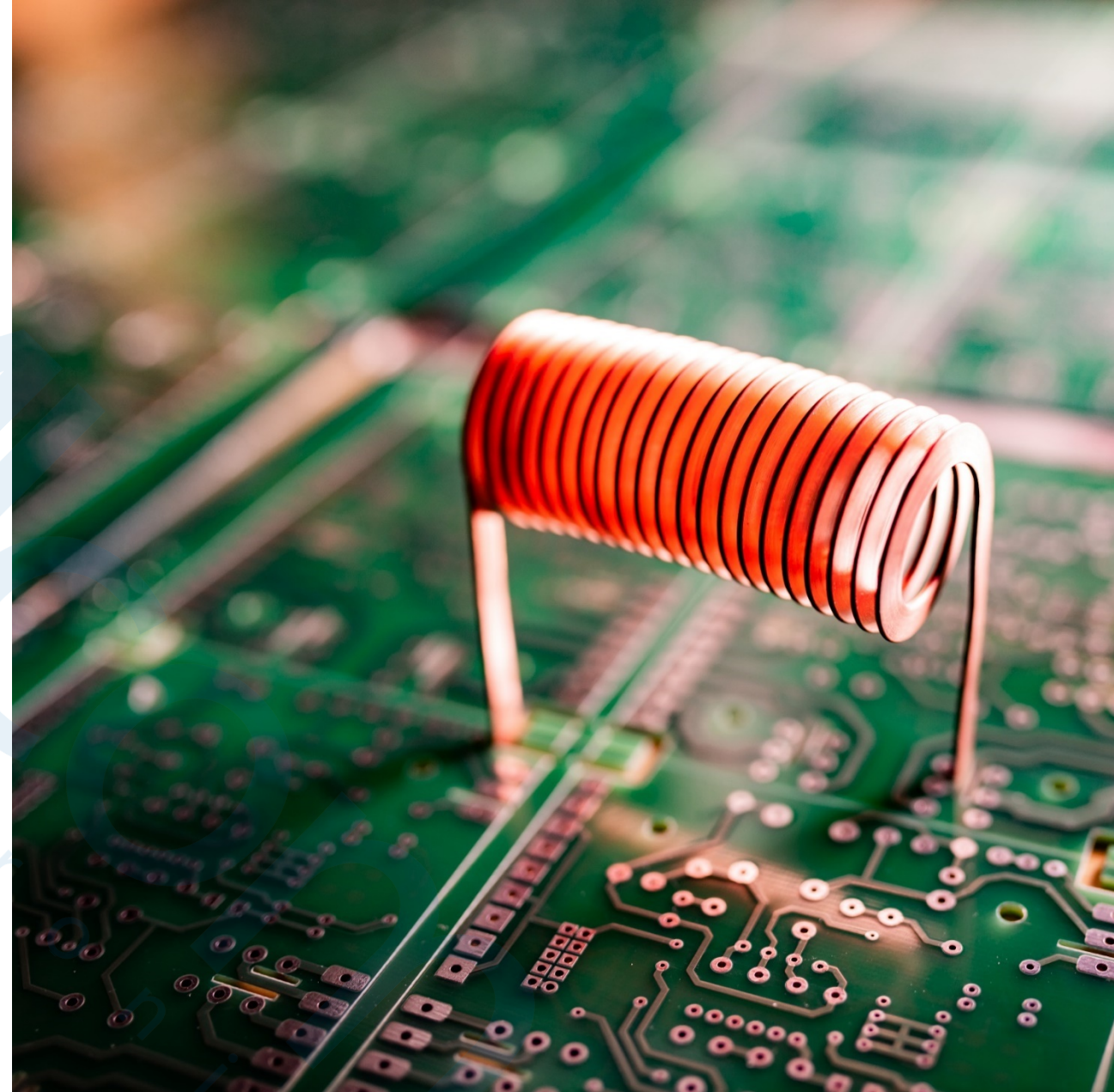
Sources of interference and drains

••• Drain and source

- ICs
- Processors
- Antenna
- Connectors

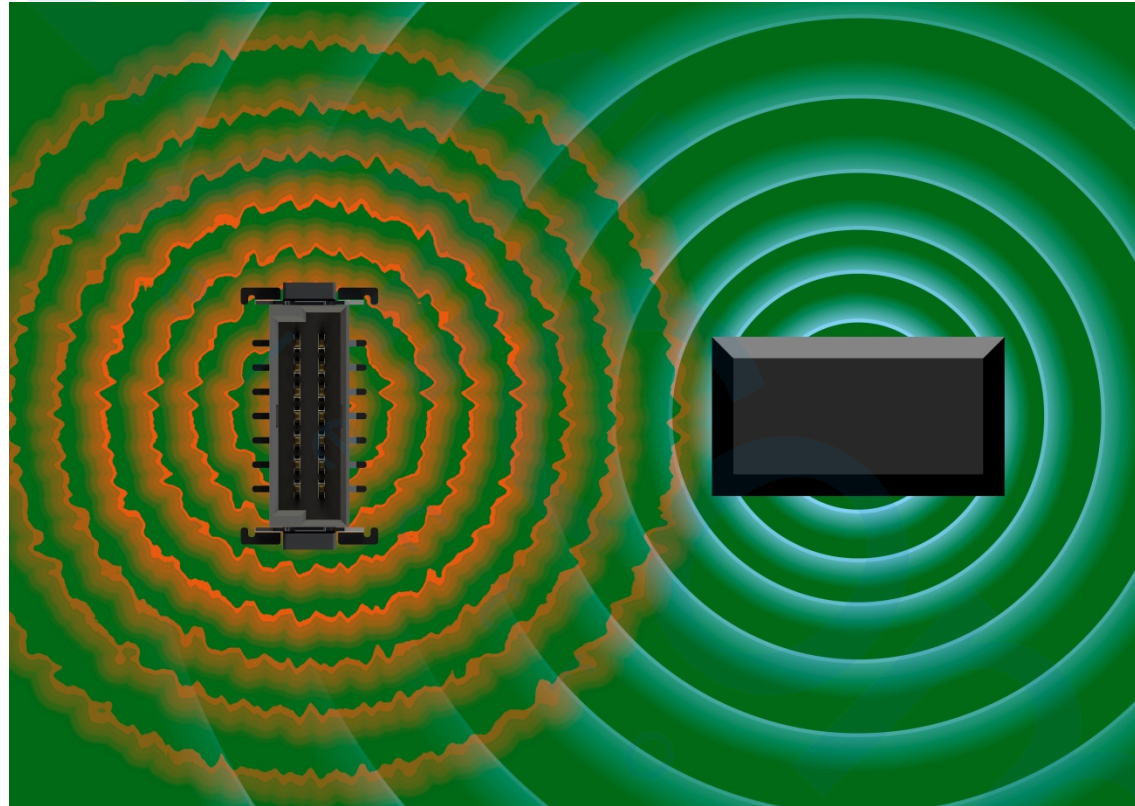
••• Source

- Frequency converter
- Power units and transformers
- Motors
- Fans and pumps
- Relays
- Capacitors



EMC

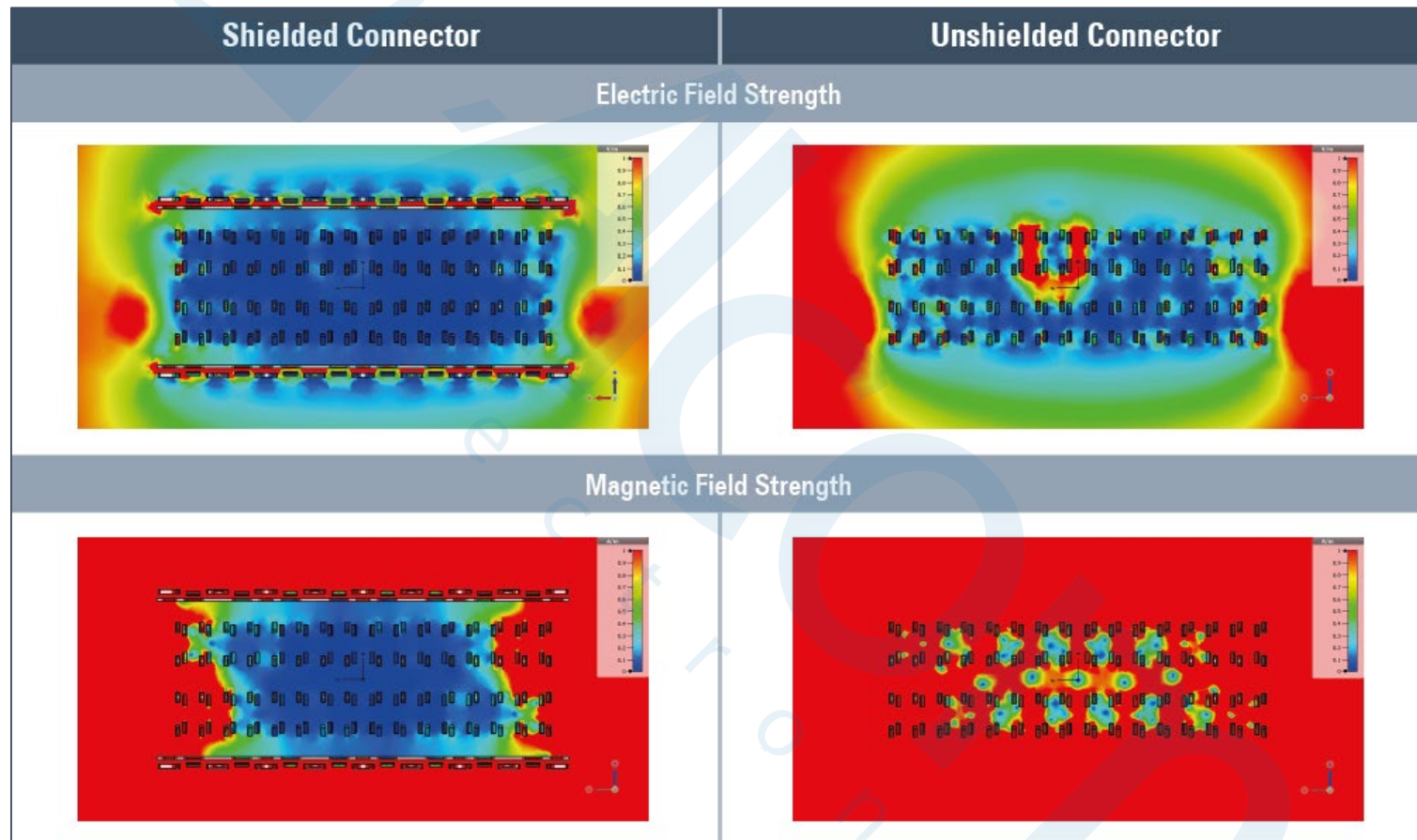
The basics



Example: A connector is situated near the source or a drain

EMC

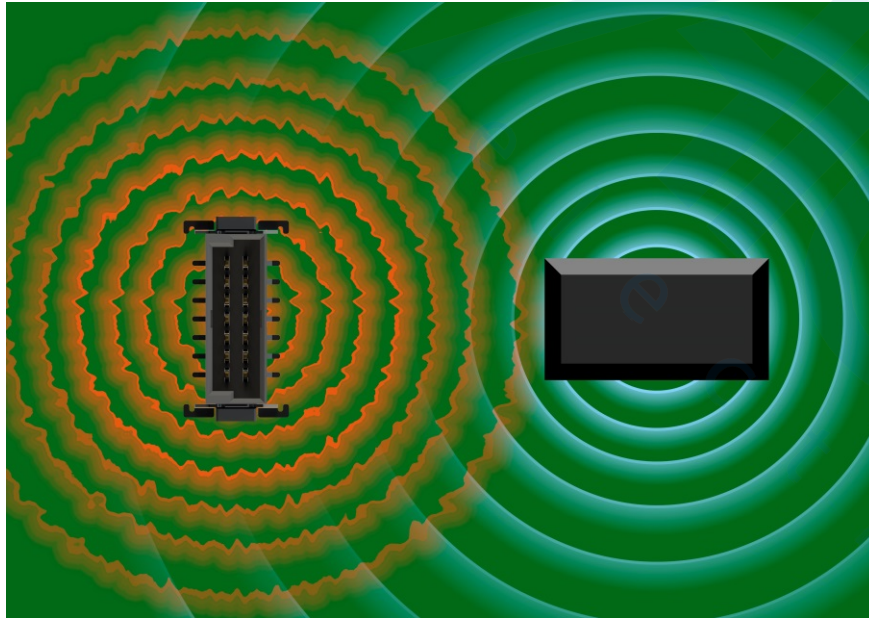
In the context of connectors



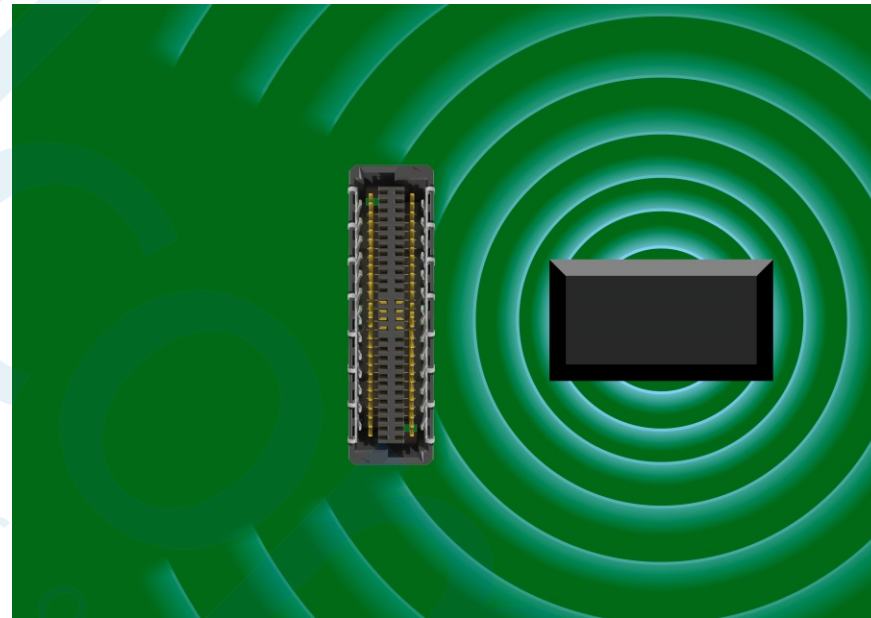
EMC

In the context of connectors

Individual components can be placed closer together when using shielded connectors



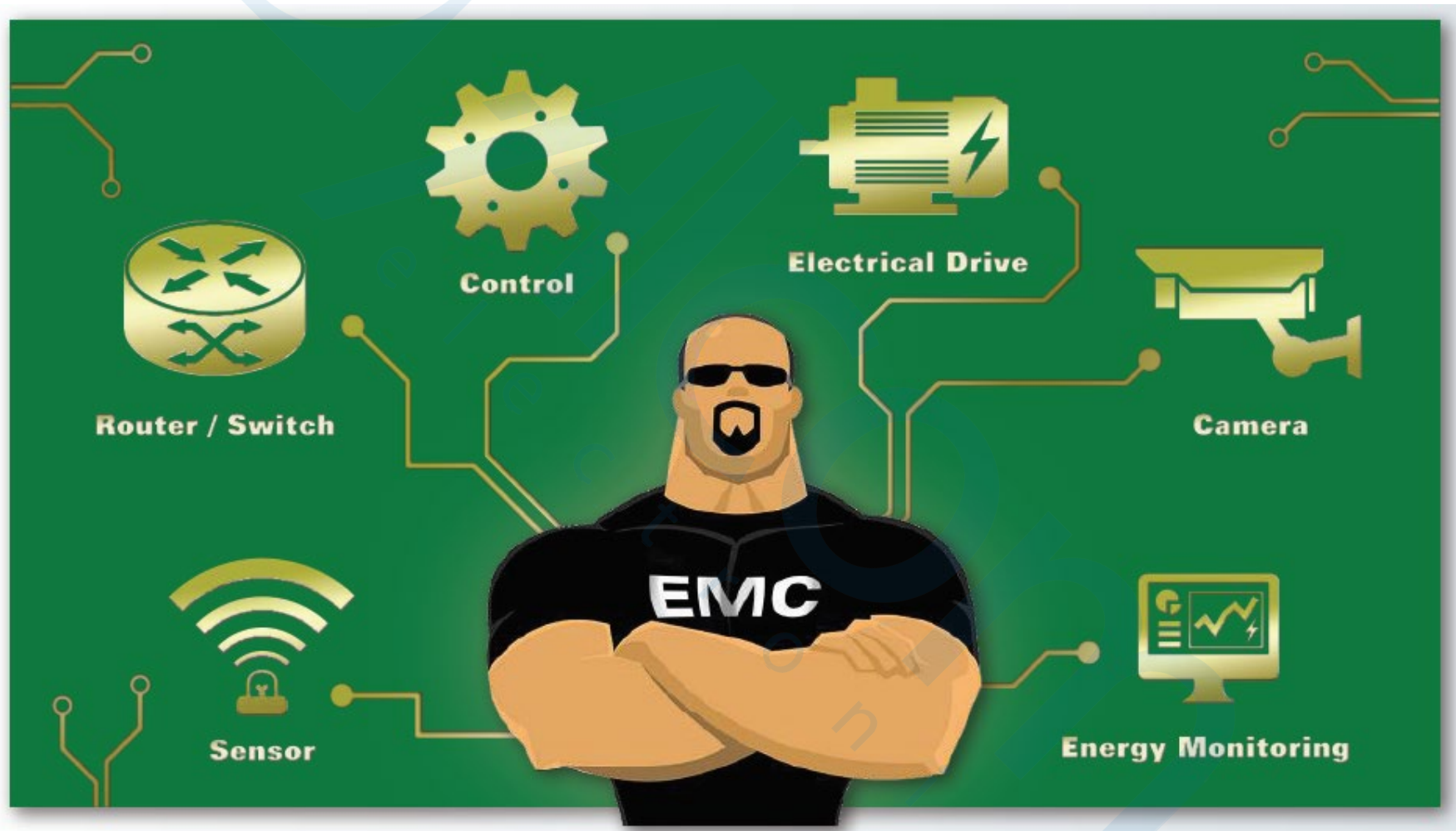
Unshielded connectors



Shielded connectors

Target applications

EM protection is handy here



EMC Connectors

You can protect your signal using these connectors



Colibri

SMT connectors
with a pitch of 0.5 mm



Zero8

SMT connectors
with a pitch of 0.8 mm