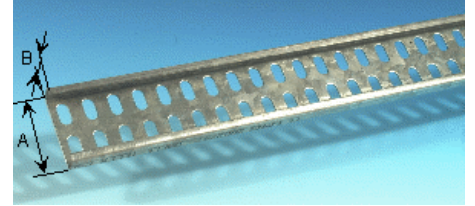


In order to avoid EM noise (EMC rules)

- **Put cables along metal structures** (even if painted)

- Setup support
- Platforms and stairs
- Cable trays with few openings (e.g. SCEM: 04.76.12.J)
- Avoid discontinuity in metal
- Best structures: like for pc's (look at connections to power boxes) or fully closed, like at LA2 (for fast tape station)



- **Separate cables**

- HV and power in 1 tray
- Signal and control in another
- Put metal bars between different (types of) cables

- **Don't roll cables** – you create antennas
 - Put cables back and forth along metal nearby
- **Connect elements with each other**
 - Ideal: metal plates - iron or stainless steel
 - Avoid connecting different metals together – oxidation, e.g. Cu with Al
 - Copper wires are not best, but better than nothing
- **Avoid coaxial cables – big cross talk**
 - Twisted pairs or triaxial cables are better
 - Put coax on metal trays
 - Present BNC cables in CERN stores are not very good
- **If still problems - ask Fritz Szonsco**