

- All metal components, include spare/reserved cables, should not be floating. (see. Effect of floating conductor)
- Common mode current send/return loops should have as small an area as possible. (see. Return path)
- Shielded cables are recommended.
- The recommended implementation of shielding includes: (see. Treatment of cable shield)
 - 360° connection between a shield of cable and an shield of sub-detector at the point of entry.
 - Differential signaling, optical fibre or opto couplers are recommended.
- If it is difficult to use shielded cable for power, pin assignments should be well-designed from the view point of current return, and added CM filter on the sub-detector shield plate. (see. Return path and Filter and RF bonding)
- Cable classification and isolation (see. Cable segregation)