

## APPENDIX 12

### NUMBER OF CABLES THAT MAY BE INSTALLED IN TRUNKING, CONDUITS AND TRAYS

(Refer Section 6 of Regulations)

#### 1. TRUNKING:

Where single core insulated cables are installed in surface mounted metal or PVC trunking, the space factor shall normally not exceed 40 percent. Suitable correction factor shall be applied to the corresponding current carrying capacity, based on the number of circuits installed within the trunking.

#### 2. CONDUITS:

Nominal cross sectional area of Conductors	Size of Conduit in mm		
	20	25	32
	Maximum number of cables drawn		
1.5	7	12	-
2.5	5	9	12
4.0	3	6	9
6.0	-	5	8
10.0	-	3	6
16.0	-	-	4
25.0	-	-	3

The size of conduits selected shall allow drawing the cables freely within, without damaging the insulation.

#### 3. CABLE TRAY:

- Where single core insulated & sheathed cables are installed in ventilated cable trays, the sum of the combined cross - sectional area of all cables installed in the tray shall not exceed 50% of the interior cross sectional area of the cable tray. Suitable correction factor shall be applied to the corresponding current carrying capacity based on number of circuits and method of installation (touching or spaced).
- Where multicore cables are installed in ventilated cable trays the sum of the dia-metres of all cables installed shall not exceed 60% of the cable tray width and the cables shall be installed in a single layer. Suitable corrector factor shall be applied to the corresponding current carrying capacity based on the number of cables and the method of installation (touching & spaced).