

**APPENDIX 5**  
**SELECTION OF CABLES**  
 (Refer section 4 of regulations)

Recommended size of cables for use in fixed wiring installation,  
 for general purposes, and in normal situations, in the Emirate of Dubai.

**TABLE - 1**

**Single - Core PVC insulated, non-armoured, Stranded copper Conductors**

Size of cables, in 'concealed' conduits		Max. rating of MCB/MCCB (Amps)	Max. Load current/demand (Amps)
2 x 1C, 1 Phase (mm <sup>2</sup> )	3/4 x 1C, 3 Phase (mm <sup>2</sup> )		
2.5	2.5	10/15	10/15
4	4	20	20
6	6	25	25
6	10	30	30
10	16	40	40
16	25	50	50
25	25	60	60
35	50	80	80
-	70	100	100
-	95	125	125
-	120	150/160	150/160

For general notes refer page 107

**TABLE - 2****Multi core armoured PVC insulated, copper Conductors**

<b>Size of 1 No., 3/4 C PVC/SWA/PVC Cable installed in normal situations (mm<sup>2</sup>)</b>	<b>Max. rating of MCB/MCCB (Amps)</b>	<b>Max. Load current/demand (Amps)</b>
2.5	10/15	10/15
4	20	20
6	30	30
10	40	40
16	50	50
25	60	60
35	80	80
50	100	100
70	125	125
65	160	160
120	180	180
150	200	200
185	250	250
240	300	300
300	350	350
400	400	400

**For general notes refer page 107**

**TABLE - 3****Multi core armoured XLPE insulated, Copper Conductors**

<b>Size of 1 No., Cable installed in normal situations (mm<sup>2</sup>)</b>	<b>Max. rating of MCB/MCCB (Amps)</b>	<b>Max. Load current/demand (Amps)</b>
10	50	50
16	60	60
25	80	80
35	100	100
50	125	125
70	160	160
95	200	200
120	225	225
150	250	250
185	300	300
240	350	350
300	400	400

**For general notes refer page 107**

**Common notes for Tables 1,2 & 3**

1. Assess initial demand with safe diversity and anticipated demand in future, if any, as applicable to individual circuits, for selection of cable size, breakers rating, etc.
2. Assess individual fault levels and select MCBs/MCCBs accordingly.
3. Refer manufacturer's catalogues and select MCBs/MCCBs, cable sizes, etc. for specific applications, considering inductive/capacitive loads, laying conditions, voltage drop, correction factors, etc.