



Current Ratings – Table 4F3A Flexible cords, non-armoured (Copper Conductors)

Current Carrying Capacity (amperes) and Mass Supportable (kg)

Conductor cross sectional area 1 mm ²	Current carrying capacity		Max mass supportable by twin flexible cord (see reg 522.7.2 & 559.6.1.5) 4 Kg
	Single phase a.c 2 A	Three phase a.c 3 A	
0.5	3	3	2
0.75	6	6	3
1	10	10	5
1.25	13	-	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

When cable is on a reel see notes to table 4H1A

Correction Factors for Ambient temperature

60°C thermoplastic or thermosetting insulated cords:

Ambient Temp	35°C	40°C	45°C	50°C	55°C
Correction Factor	0.91	0.82	0.71	0.58	0.41

90°C thermoplastic or thermosetting insulated cords:

Ambient Temp	35°C - 50°C	55°C	60°C	65°C	70°C
Correction Factor	1.0	0.96	0.83	0.67	0.47

180°C thermosetting insulated cords

Ambient Temp	35°C - 120°C	125°C	130°C	135°C	140°C	145°C
Correction Factor	1.0	0.96	0.85	0.74	0.60	0.42

Glass fibre cords

Ambient Temp	35°C - 150°C	155°C	160°C	165°C	170°C	175°C
Correction Factor	1.0	0.92	0.82	0.71	0.57	0.40

Table 4F3B

Voltage drop (per ampere per metre) - Conductor operating temperature 60°C*

Conductor cross sectional area 1 mm ²	d.c. or single phase a.c 2 mV/A/m	Three phase a.c 3 mV/A/m
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

Note: *The tabulated values above are for 60°C rubber insulated and pvc insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

90°C thermoplastic or thermosetting insulated	1.09
180°C thermosetting insulated	1.31
185°C glass fibre	1.43