

TABLE 4F3A Flexible cords, non-armoured (Copper Conductors)

CURRENT-CARRYING CAPACITY (amperes): and MASS SUPPORTABLE (kg):

Conductor cross-sectional area 1	current carrying capacity		Maximum mass supportable by twin flexible cord (see Regulations 522.7.2 & 559.6.1.5) 4
	single-phase a.c. 2	three-phase a.c. 3	
(mm ²)	(A)	(A)	(kg)
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

NOTES
Where cable is on a reel see the notes to Table 4F1A

RATING FACTOR FOR AMBIENT TEMPERATURE

60°C thermoplastic or thermosetting insulated cords:
Ambient Temp (°C) 35 40 45 50 55
Rating Factor 0.91 0.82 0.71 0.58 0.41

180°C thermosetting insulated cords:
Ambient Temp (°C) 35 to 120 125 130 135 140 145
Rating Factor 1.0 0.96 0.85 0.74 0.60 0.42

90°C thermoplastic or thermosetting insulated cords:
Ambient Temp (°C) 35 to 50 55 60 65 70
Rating Factor 1.0 0.96 0.83 0.67 0.47

Glass fibre cords:
Ambient Temp (°C) 35 to 150 155 160 165 170 175
Rating Factor 1.0 0.92 0.82 0.71 0.57 0.40

VOLTAGE DROP (per ampere per metre) **TABLE 4F3B** Conductor operating temperature:60°C*

Conductor cross-sectional area 1	d.c or single-phase a.c. 2	three-phase a.c. 3
(mm ²)	(mV/A/m)	(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 thermoplastic or thermosetting 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

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