

TABLE 4H3A Flexible Cords, non armoured (Copper Conductors) BS6500, BS7919

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

Conductor cross-sectional area 1	Current-carrying capacity		Maximum mass supportable by twin flexible cord (see Regulation 522-08-06) 4
	Single-phase a.c.	Three-phase a.c.	
2	3	3	4
(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

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

CORRECTION FACTOR FOR AMBIENT TEMPERATURE

60°C rubber and pvc cords:

Ambient temperature 35°C 40°C 45°C 50°C 55°C
Correction factor 0.91 0.82 0.71 0.58 0.41

85°C rubber cords having h.o.f.r. sheath or a heat-resisting pvc sheath and for 85°C and 90°C heat-resisting cords:

Ambient temperature 30 to 50°C 55°C 60°C 65°C 70°C
Correction factor 1.0 0.96 0.83 0.67 0.47

150°C rubber cords:

Ambient temperature 35 to 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 temperature 35 to 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 4H3B

VOLTAGE DROP(per ampere per metre)

Conductor operating temperature: 60°C*

Conductor cross-sectional area 1	d.c. or single-phase a.c.	Three-phase a.c.
2	3	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 rubber-insulated and pvc-insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

For

85°C rubber or 85°C and 90°C pvc-insulated	1.09
150°C rubber insulated	1.31
185°C glass fibre	1.43