

**TABLE 4G2A Mineral insulated cables bare and neither exposed to touch nor in contact with combustible materials (copper conductors & sheath)**

CURRENT-CARRYING CAPACITY (amperes):

Ambient temperature : 30°C  
Conductor operating temperature:105°C

Conductor cross-sectional area  1	Reference Method C (clipped direct)			Reference Method E F & G (in free air or on a perforated cable tray etc, horizontal or vertical)				
	single phase a.c or d.c. 2 single-core cables or 1 two-core cable, 2	three- phase a.c. 3 single-core cables trefoil, or 1 3 or 4 core cable 3	3 single-core cables flat & touching, horizontal or vertical 4	2 single-core cables, touching or 1 two-core cable 5	3 single-core cables trefoil, or 1 three-core or four-core cable 6	3 single core cables, flat and touching 7	3 single-core cables spaced by one vertical 8	cables flat & touching horizontal 9
(mm <sup>2</sup> )	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
<b>Light Duty 500V</b>								
1	22	19	21	24	21	23	26	29
1.5	28	24	27	31	26	29	33	37
2.5	38	33	36	41	35	39	43	49
4	51	44	47	54	46	51	56	64
<b>Heavy Duty 750V</b>								
1	24	20	24	26	22	25	28	32
1.5	31	26	30	33	28	32	35	40
2.5	42	35	41	45	38	43	47	54
4	55	47	53	60	50	56	61	70
6	70	59	67	76	64	71	78	89
10	96	81	91	104	87	96	105	120
16	127	107	119	137	115	127	137	157
25	166	140	154	179	150	164	178	204
35	203	171	187	220	184	200	216	248
50	251	212	230	272	228	247	266	304
70	307	260	280	333	279	300	323	370
95	369	312	334	400	335	359	385	441
120	424	359	383	460	385	411	441	505
150	485	410	435	526	441	469	498	565
185	550	465	492	596	500	530	557	629
240	643	544	572	697	584	617	624	704

NOTES:

1. For single-core cables, the sheaths of the circuit are assumed to be connected together at both ends
2. No rating factor for grouping need be applied
3. Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature ( see Regulation 512.1.2)

All tables are reproduced by kind permission of The Institution of Engineering & Technology from IEE Regs, 17th Edition However, it should be noted that in order to apply these tables correctly, reference is required to appendix 4 of the 17th edition of the wiring regulations which may be obtained from: Institution of Engineering & Technology, Michael Faraday House, Six Hills Way, Stevenage, Hertfordshire, ENGLAND, SG1 2AY.

[battindustrial.sales@batt.co.uk](mailto:battindustrial.sales@batt.co.uk)