

TABLE 4G2A - Mineral insulated cable bare and neither exposed to touch nor in contact with combustible materials (COPPER CONDUCTORS AND SHEATH)

Ambient temperature: 30 °C

Sheath operating temperature: 105 °C

CURRENT-CARRYING CAPACITY (amperes):

	Reference Method C (clipped direct)			Reference Methods E, F and G					
				(in free air or on a perforated cable tray etc, horizontal or					
Conductor				vertical)					
cross-	Single-phase				Single-phase				
sectional	AC or DC			AC or DC	Three-phase AC				
area	2 single-core	_	_	2 single-core	_	_	_		
	cables		core cables		cables in		flat and spaced by one		
	touching or I		flat and	touching or 1		cables	cable di		
	two-core	three-core	touching,	two-core	three-core	flat and		horizonta	
	cable	or four-core		cable	or four-core	touching			
		cable	or vertical	_	cable	_			
1	2	3	4	5	6	7	8	9	
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	
Light duty 500V									
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	
Heavy d	Heavy duty 750V								
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 should be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.5).

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