

Current Ratings for Continuous Service (IEC 60092-352)

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Conductor temperature	90°C					
	Single core (A)		Two core (A)		Three core & four core (A)	
Nominal cross-sectional Area (mm ²)						
0.5	10		8.5		7	
0.75	13		11		9	
1	18		15		13	
1.5	23		20		16	
2.5	30		26		21	
4	40		34		28	
6	52		44		36	
10	72		61		50	
16	96		82		67	
25	127		108		89	
35	157		133		110	
50	196		167		137	
70	242		206		169	
95	293		249		205	
120	339		288		237	
150	389		331		273	
185	444		377		311	
240	522		444		366	
300	601		511		420	
	d.c.	a.c.	d.c.	a.c.	d.c.	a.c.
400	690	670	587	570	483	469
500	780	720	663	612	546	504
500	890	780	757	663	623	546

Note

1. Maximum permissible service temperature of the conductor is 90°C.

2. The current ratings given above are based on an ambient air temperature of 45°C.

3. The current ratings given above are for 6 cables of less bunched or laid together in flat formation. When more than 6 cables are bunched or laid close together, the current ratings

given above should be multiplied by correction factor 0.85.

4. For cables with more than four core cables, the current ratings are calculated by the following formula.

$$I = I_1 / N^{1/3}$$

I₁: Current for single core cable

N: Number of cores

5. Correction factors for various ambient air temperature

Maximum conductor temperature	Correction factors for ambient air temperature									
	35	40	45	50	55	60	65	70	75	80
°C										
90	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47