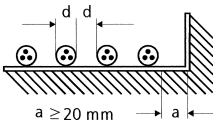
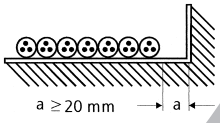
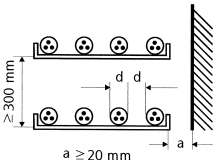
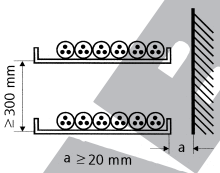
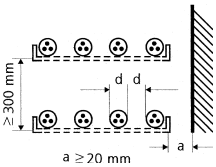
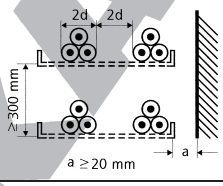
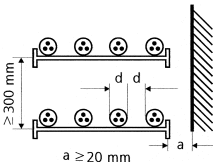
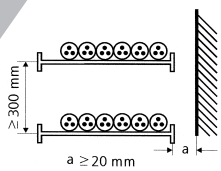
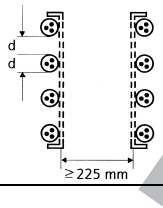
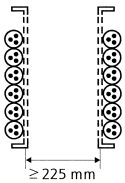
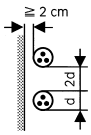
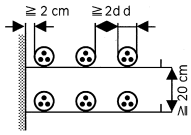
Rating conversion factors for installation of Medium Voltage Cables 6–30 kV

Rating conversion factors for laying in air*)
Multicore cable and single core direct current cable

Arrangement of cables in laying condition	Number of cables troughs or trays	**Without inter-contact** Space = cable ∅ d Distance from wall ≧2 cm						**With inter-contact** contact with wall						
		Installation method	Number of cables 1	2	3	4	6	Installation method	Number of cables 1	2	3	4	6	9
on the ground	1		0,97	0,96	0,94	0,93	0,90		0,97	0,85	0,78	0,75	0,71	0,68
on non-perforated cable troughs (restricted air circulation)	1		0,97	0,96	0,94	0,93	0,90		0,97	0,85	0,78	0,75	0,71	0,68
	2		0,97	0,95	0,92	0,90	0,86		0,97	0,84	0,76	0,73	0,68	0,63
	3		0,97	0,94	0,91	0,89	0,84		0,97	0,83	0,75	0,72	0,66	0,61
	6		0,97	0,93	0,90	0,88	0,83		0,97	0,81	0,73	0,69	0,63	0,58
on perforated cable troughs	1		1,00	1,00	0,98	0,95	0,91		1,00	0,88	0,82	0,79	0,76	0,73
	2		1,00	0,99	0,96	0,92	0,87		1,00	0,87	0,80	0,77	0,73	0,68
	3		1,00	0,98	0,95	0,91	0,85		1,00	0,86	0,79	0,76	0,71	0,66
	6		1,00	0,97	0,94	0,90	0,84		1,00	0,84	0,77	0,73	0,68	0,64
on cable trays or on cable ladders (unrestricted air circulation)	1		1,00	1,00	1,00	1,00	1,00		1,00	0,87	0,82	0,80	0,79	0,78
	2		1,00	0,99	0,98	0,97	0,96		1,00	0,86	0,80	0,78	0,76	0,73
	3		1,00	0,94	0,97	0,96	0,93		1,00	0,85	0,79	0,76	0,73	0,70
	6		1,00	0,97	0,96	0,94	0,91		1,00	0,83	0,76	0,73	0,69	0,66
on platform or on wall or on perforated cable tray	1		1,00	0,91	0,89	0,88	0,87		1,00	0,88	0,82	0,78	0,73	0,72
	2		1,00	0,91	0,88	0,87	0,85		1,00	0,88	0,81	0,76	0,71	0,70
laid on platform or on the wall	———	———	———						0,95	0,78	0,73	0,72	0,68	0,66
Arrangements, for which a reduction not necessary[1]		Number of cable arranged one over another is optional						Number of cable arranged side-by-side is optional						

Note
Conversion factors for deviating ambient temperature – see page T32

[1] In narrow rooms or for bigger grouping, the air temperature is increased due to energy losses of cable, so the additional conversion factors for deviating air-temperatures are to be taken in the given table.

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