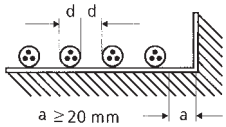
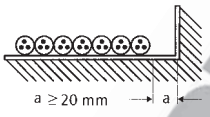
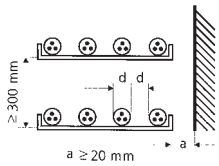
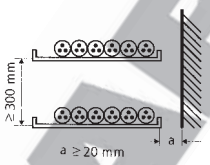
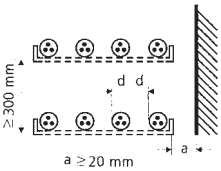
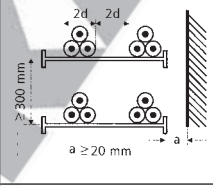
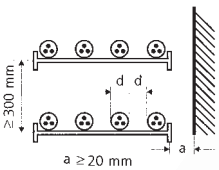
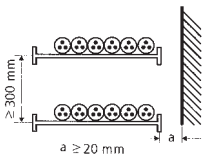
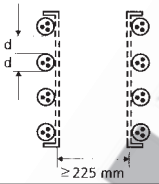
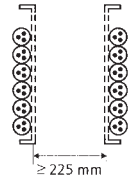
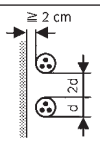
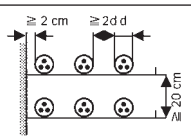
Rating conversion factors for installation of Medium Voltage Cables 6 – 30 kV

Rating conversion factors for laying in <u>air</u>*)
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 Ø d Distance from wall ≧ 2cm						**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 perfo-rated 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 **X 38**

[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.