

NYM & (N)YM(St) installation cables

These charts are extracted in abbreviated form from DIN VDE 0298 Part 4 and relate to multicore sheathed cables for fixed wiring in buildings based on 30°C operating temperature at conductor and 30°C ambient air temperature. The figures shown are to be considered as guiding values only.

Current Carrying Capacity in Ampere (Amps)				
Conductor Area (mm ²)	Laid in insulating tubes, in a thermally insulated wall		Laid in insulating tubes, on a wall	
	2 loaded cores	3-4 loaded cores	2 loaded cores	3-4 loaded cores
1.5	15.5	13.0	16.5	15.0
2.5	18.5	17.5	23.0	20.0
4.0	25.0	23.0	30.0	27.0
6.0	32.0	29.0	38.0	37.0
10	43.0	39.0	52.0	46.0
16	57.0	52.0	69.0	62.0
25	75.0	68.0	90.0	80.0
35	92.0	83.0	111.0	99.0

Conductor Area (mm ²)	Laid in open air against a wall		In open air, min. 0.3x O/D space	
	2 loaded cores	3-4 loaded cores	2 loaded cores	3-4 loaded cores
1.5	19.5	17.5	22.0	18.5
2.5	27.0	24.0	30.0	25.0
4.0	36.0	32.0	40.0	34.0
6.0	46.0	41.0	51.0	43.0
10	63.0	57.0	70.0	60.0
16	85.0	76.0	94.0	80.0
25	112.0	96.0	119.0	101.0
35	138.0	119.0	148.0	126.0

Conversion factors for cables ≥ 5 core against 3-4 core in above table

Loaded Cores:	5	7	10
Factor:	0.75	0.65	0.55

Conversion factors for deviating ambient air temperature

Temperature:	35°C	40°C	45°C	50°C	55°C	60°C	65°C
Factor:	0.94	0.87	0.79	0.71	0.61	0.50	0.35

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