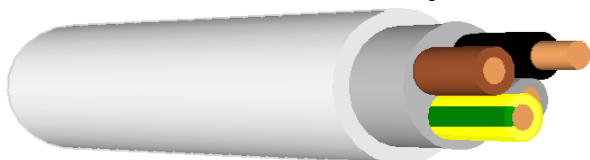


(N)YM 300/500V

ZN-TF-209



PVC-sheathed cables for power installation



CONSTRUCTION

Conductors:	annealed copper solid class 1, or circular stranded conductor class 2 acc. to EN 60228
Insulation:	special PVC compound type TI1 acc. to HD 21.1 S4
Inner covering:	not vulcanized rubber compound
Sheath:	special PVC compound type TM1 acc. to HD 21.1 S4

CHARACTERISTIC

Colour of sheath:	white or other colors	
Core identification:		
	(N)YM-J	(N)YM-O
single-core:	green-yellow	black or brown or grey
2-core:		blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
3-core*:		blue, brown, black
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
4-core*:	green/yellow, blue, brown, black	
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
7-core and more:	green/yellow, other cores black with white numbering	black with white numbering
* For certain applications only.		
Maximum conductor operating temperature:	+70°C	
Lowest ambient temperature for fixed installation:	-30°C	
Lowest installation temperature:	-5°C	
Maximum short-circuit conductor temperature:	+160°C	
Minimum bending radius:	6 x D, D – overall diameter	
Test voltage:	2000V	

FIRE PERFORMANCE

▪ Flame retardant:	IEC 60332-1-2
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APPLICATIONS

For fixed installation. Usable in the open, in dry, damp and wet environments in the open and concealed, as well as in masonry and in concrete, not suitable for imbedding in solidified - or compressed concrete.

Standard length cable packing	100 m coils or 500 m on drums. Other forms of packing and delivery are available on request.
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(N)YM 300/500V

ZN-TF-209



Number and cross-sectional area of conductor	Minimum number of wires in conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Minimum insulation resistance at 70°C
n x mm ²	n	mm	kg/km	Ω/km	MΩ. km
1x1,5	1	4,3	28	12,1	0,010
1x2,5	1	4,8	41	7,41	0,0094
1x4	1	5,5	59	4,61	0,0087
1x6	1	6,0	79	3,08	0,0074
1x10	1	7,2	125	1,83	0,0072
1x16	6	8,5	189	1,15	0,0053
2x1,5	1	7,1	76	12,1	0,010
2x2,5	1	8,3	111	7,41	0,0094
2x4	1	9,6	161	4,61	0,0087
2x6	1	10,6	222	3,08	0,0074
2x10	1	13,6	363	1,83	0,0072
2x16	6	16,2	546	1,15	0,0053
2x25	6	19,8	847	0,727	0,0051
2x35	6	21,9	1099	0,524	0,0045
3x1,5	1	7,5	92	12,1	0,010
3x2,5	1	8,8	136	7,41	0,0094
3x4	1	10,3	200	4,61	0,0087
3x6	1	11,2	278	3,08	0,0074
3x10	1	14,4	455	1,83	0,0072
3x16	6	16,8	690	1,15	0,0053
3x25	6	21,1	1071	0,727	0,0051
3x35	6	23,7	1423	0,524	0,0045
4x1,5	1	8,1	112	12,1	0,010
4x2,5	1	9,5	167	7,41	0,0094
4x4	1	11,1	247	4,61	0,0087
4x6	1	12,9	355	3,08	0,0074
4x10	1	15,8	567	1,83	0,0072
4x16	6	18,9	878	1,15	0,0053
4x25	6	23,4	1360	0,727	0,0051
4x35	6	26,0	1786	0,524	0,0045
5x1,5	1	8,8	136	12,1	0,010
5x2,5	1	10,4	205	7,41	0,0094
5x4	1	12,8	314	4,61	0,0087
5x6	1	14,1	436	3,08	0,0074
5x10	1	16,9	698	1,83	0,0072
5x16	6	20,8	1084	1,15	0,0053
5x25	6	25,8	1682	0,727	0,0051

(N)YM 300/500V

ZN-TF-209



Number and cross-sectional area of conductor	Minimum number of wires in conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	Minimum insulation resistance at 70°C
$n \times \text{mm}^2$	n	mm	kg/km	Ω/km	M Ω . km
5x35	6	28,7	2213	0,524	0,0045
7x1,5	1	9,6	179	12,1	0,010
7x2,5	1	11,3	270	7,41	0,0094



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