

NYAF

CU/PVC



FLEXIBLE SMALL BENDING RADIUS / FLAME RETARDANT AND HYDROCARBON RESISTANT

Construction

Conductor: bare copper conductor, fine wired stranded, class 5. acc. to IEC 60228 / HD 383 / DIN VDE 0295

Insulation: PVC compound T11 acc. to IEC 60227-3 / HD 21.3 S3 / DIN VDE 00281 part 3

Colour Code: acc. to IEC 60446 i.e. EN 60446 (corresponding to DIN VDE 0293)



- blue colour is used for neutral conductor, black and brown are applied for alternating current phase conductors



APPLICATION

Flexible insulated conductor used for laying in electric-installation tubes, under and on plaster installation in dry rooms and in closed installation conduits. Direct laying in cable guides is not permitted. Also applied for internal wiring of distribution and switching boxes equipment, same as for protective laying for lighting of nominal voltage up to 1000 V alternating current, or up to 750 V direct current against earth.

Technical data

Temperature range:

During installation : +5 °C up to +70 °C
fixed installed: -30 °C up to +70 °C

at short circuit of max. ambient temperature at storage: 5 s: up to 160 °C up to 40 °C

Nominal voltage: $\leq 1.0\text{mm}^2$ Uo/U = 300/500 V
Test voltage: $\leq 1.0\text{mm}^2$ 2000 V

Nominal voltage: $> 1.5\text{mm}^2$ Uo/U = 450/750 V
Test voltage: $> 1.5\text{mm}^2$ 2500 V

Minimal inner bending radius: 4D for D < 8 mm
5D for 8 - 12 mm
6D for D > 12 mm

Behavior in fire: IEC 60332-1

DESIGN STANDARDS

HRN HD 21.3 S3
IEC 60227-3
DIN VDE 0281 part 3

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Code NR	conductor cross-section	Construction of individual conductor	External diameter	Insulation thickness	Conductor resistance at 20 °C	Cable weight	Packing*
	mm ²	nominal n x mm	min-max. mm	nominal mm	max Ω/km	approx. kg/km	
1175	0.75	24 x 0,195	2,0 – 2.4	0,6	26	12	c.100, c.200
1110	1.0	31 x 0,195	2.3 – 2.7	0,6	19.5	15	c.100, c.200
1115	1,5	31 x 0,23	2,8 – 3.4	0,7	13,3	20	c.100, c.200
1125	2,5	51 x 0,23	3,4 – 3.6	0,8	7,98	32	c.100
1140	4	83 x 0,23	3,9 - 4,3	0,8	4,95	46	c.100
1160	6	82 x 0,28	4,5 – 4.9	0,8	3,30	65	c.100
1110	10	70 x 0,395	5,7 - 6,1	1,0	1,91	115	c.100
11160	16	118 x 0,395	6,8 – 7.2	1,0	1,21	170	c.100
11250	25	186 x 0,395	8,8 – 9.2	1,2	0,780	260	CUT
11350	35	265 x 0,395	10.4 – 10.8	1,2	0,554	360	CUT
11500	50	383 x 0,395	12.2 – 12.6	1,4	0,386	515	CUT
11700	70	528 x 0,395	13,3 – 13.7	1,4	0,272	710	CUT
11950	95	710 x 0,395	16.2 – 16.9	1,6	0,206	940	CUT
111200	120	614 x 0,50	17 – 17.9	1,6	0,161	1180	CUT
111500	150	765 x 0,50	19.0 – 19.9	1,8	0,129	1600	CUT
111850	185	944 x 0,50	21.0 – 21.9	2,0	0,106	2100	CUT
112400	240	1225 x 0,50	24.0 – 24.9	2,2	0,0801	3015	CUT

*)Packing: c.100 = coil 100 m, c.200 = coil 200 m CUT= cable in different lengths on drum or reel, possible cutting at required