

NYCWY 0,6/1 kV

[D]

Model Product: 433 - 20241025

general
CAVI s.p.a.



Rigid class 1 and class 2 red copper conductor.
PVC insulation, DIV4.
Concentric copper wires shield
PVC Sheath, DMV5.

STANDARDS

DIN VDE 0276 part 603, HD 603 S1 and IEC 60502

Accordingly to the standards BT 2014/35/UE-2011/65/EU (RoHS 2)

COMMON FEATURES

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, indoors and in cable ducts. The concentric conductor (C) is allowed to use as PE-, PEN-conductor or as screen.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
for single core approx. 15x cable \varnothing
for multi core approx. 12x cable \varnothing

Maximum pulling stress: Max. permissible tensile stress with cable grip for Cu-conductor = 50 N/mm²

Power cable, 0,6/1kV, with concentric copper conductor, VDE approved

Nominal voltage U0: 600 V

Nominal voltage U: 1000 V

Test voltage: 4000 V

Maximun voltage Um: 1200V three-phase 1400Vsingle-phase 1800V CC

Maximun operating temperature: + 70°C

Maximun short circuit temperature for sections up to 240mm²: +160°C

Minimum installation and laying temperature: -5°C

Min. operating temperature (without mechanical shocks): -40°C

CORE COLOURS

Two cores: blue, brown

Three cores: brown-black-gray (or blue-brown-Y/R)

Four cores: blue-brown-black-gray (Y/G no blue);

SHEATH COLOUR

Black

INK MARKING

General Cavi VDE 0276 NYCWY 0,6/1kV

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N.cores x cross.sec. (N° x mm²)	Outer Ø approx. (mm)	Cop. weight (kg / km)	Weight approx. (kg / km)	Electric resistance at 20°C (Ohm/km)	Current rating for Installation on the wall Reference method C*	
					Two loaded cores (A)	3 loaded cores (A)
Two cores						
2x10 re / 10	19	312	650	1.83	63	-
2x16 re/ 16	21	489	850	1.15	85	-
2x25 rm/25	24	763	1210	0.727	112	-
Three cores						
3x10 re /10	19.5	408	730	1.83	63	57
3x16 re/16	22	643	1000	1.15	85	76
3x25 rm/16	26	902	1550	0.727	112	96
3x25 rm/25	26	1003	1600	0.727	112	96
3x35 sm/16	27	1190	1750	0.524	138	119
3x35 sm/35	27.5	1402	1850	0.524	138	119
3x50 sm/25	29.5	1723	2250	0.387	168	144
3x50 sm/50	29.5	2000	2450	0.387	168	144
3x70 sm/35	33	2410	2950	0.268	213	184
3x70 sm/70	34	2796	3350	0.268	213	184
3x95 sm/50	38	3296	4100	0.193	258	223
3x95 sm/95	38.5	3791	4550	0.193	258	223
3x120 sm/70	41	4236	5050	0.153	299	259
3x120 sm/120	42	4786	5550	0.153	299	259
3x150 sm/70	45	5100	6000	0.124	344	299
3x150 sm/150	46	5970	6900	0.124	344	299
3x185 sm/ 95	50	6383	7550	0.0991	392	341
3x185 sm/185	51	7363	8500	0.0991	392	341
3x240 sm/ 120	57	8242	9950	0.0754	461	403
Four cores						
4x10 re/ 10	20.5	504	890	1.83	63	57
4x16 re/ 16	23.5	796	1250	1.15	85	76
4x25 rm/ 16	28	1142	1800	0.727	112	96
4x35 sm/ 16	29	1526	2050	0.524	138	119
4x50 sm/ 25	33	2203	2700	0.387	168	144
4x70 sm/ 35	37	3082	3750	0.268	213	184
4x95 sm/ 50	43	4208	5000	0.193	258	223
4x120 sm/70	47	5388	6350	0.153	299	259
4x150 sm/ 70	51	6540	7650	0.124	344	299

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					Two loaded cores (A)	3 loaded cores (A)
4x185 sm/ 95	56	8159	9350	0.0991	392	341
4x240 sm/ 120	62.5	10546	11600	0.0754	461	403

- At 25 mm² = round cables are more compact thus smaller core Ø.
- Available with outer sheath in alternative colours on request.
- re = round solid core;
- rm = stranded core;
- sm = sectional core.

Dimensions and specifications may be changed without prior notice.