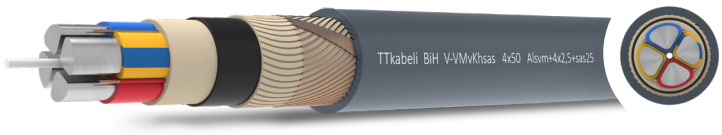
ttcables
ELECTRIC CABLE WORKS



V-VMvKhsas

Power cable 0,6/1 kV with Al conductors, insulated and sheathed with PVC

APPLICATION

A power and control cable for general use in low voltage installations up to 1 kV. Suitable for applications indicated in NEN 1010. Suited for direct burial (also in wet conditions but not directly in water) and above ground, as power cable for mains and distribution boards.

CONSTRUCTION

Conductors: Al, class 1 according to EN 60228
Pilot conductors: Cu, class 1 according to EN 60228, with PVC insulation
Insulation: PVC compound
Inner sheath: PVC compound
Bedding: Extruded elastomere or plastomere compound
Concentric conductor: Cu wires with copper counter helix tape
Bedding II: Extruded elastomere or plastomere compound
Sheath: PVC compound, UV resistant, grey, RAL 7001

CORE IDENTIFICATION

According to HD 308 S2

Outer Sheath Colour:
● Grey
Other colours available on request

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
Rated voltage: 0,6/1 kV
Bending radius (min): 12D
Min. bending radius during installation: 10D
Min. laying temperature: 0°C
Max. working temperature: 70°C
Max. short-circuit temperature: 160°C

STANDARD

NEN HD 603 S1, Part 1, Part 3, Section I

CERTIFICATION

CE
RoHS compliant
REACH COMPLIANT
IEC International Electrotechnical Commission

CHARACTERISTICS	UNIT	4x50 Alsvm+ 4x2,5 + sas 25	4x95 Alsvm + 4x6 + sas 35	4x150 Alsvm+ 4x6 +sas 50	4x240 Alsvm+ 4x6 + sas 70
Average insulation thickness of main cores	mm	1,4	1,6	1,8	2,2
Average cable diameter	mm	35	44	52	62
Cable weight	kg/m	1,9	3,1	4,2	6,2
Minimum bend radius during installation/ pulling	mm	420	528	624	744
Minimum bend radius fixed/final installation	mm	350	440	520	620
Maximum permissible pulling force	N/mm²	4000	7600	12000	19200
Maximum nominal operating temperature	°C	70	70	70	70
Operating capacity C	µF/km	0,2231	0,2364	0,2874	0,3165
DC resistance main core R_{dc} at 20 °C	Ω/km	0,641	0,320	0,206	0,125
AC resistance main core R_{ac} at 55 °C and 50 Hz	Ω/km	0,7314	0,3651	0,2351	0,1426
DC resistance screen R_{dc} at 20 °C	Ω/km	0,727	0,524	0,387	0,268
Reactance X at 50Hz	Ω/km	0,073	0,071	0,069	0,066
Thermally permissible short-circuit current of the conductor(s)	kA/1s	3,799	7,219	11,398	18,237
Thermally permissible short-circuit current of the screen	kA/1s	3,7	5,2	7,4	10,3
Continuous permissible current of the main cores*	-	194	287	371	494
Pitch length of the twisted/laid up cores	mm	1200	1204	1448	1820
Fire classification	-	Eca	Eca	Eca	Eca

*Theoretical calculated values
Soil temperature 15 ° C; installation depth 0,4-1,2m; specific heat resistnce of the ground g=0,8 K.m/W; no influence from other sources; 3 loaded phase conductors.