

# KAELL - 66 TYDED · · · · · · O MACHEU



## **Technical data**

- Rubber sheath cable to DIN VDE 0250 part 812
- Temperature range flexing -25 °C to +80 °C fixed installation -40 °C to +80 °C
- Permissible **operating temperature** at conductor +90 °C
- Nominal voltage U<sub>0</sub>/U 0,6/1 kV
- Operating voltage three-phase and one-phase a.c. U₀/U 0,7/1,2 kV direct current system U₀/U 0,9/1,8 kV
- Test voltage 3000 V
- Insulation resistance
- min. 20 MOhm x kmTensile strength
- statical load: total cross-section x15 N/mm<sup>2</sup>
- Minimum bending radius fixed installation 4x cable ø flexing 10x cable ø without forced operation 15x cable ø

### **Cable structure**

- Tinned copper conductor, fine wire stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Rubber insulation 3GI3 (EPR), to DIN VDE 0207 part 20
- Green-yellow earth-core for 3-cores and above
- Core identification: one green-yellow earth core and others black cores with continuous white numbering to DIN VDE 0293-308. The basic-line prohibits confusion to recognise the individual cores.
- Cores stranded (multi cores)
- Rubber inner sheath, GM1b, rubber-compound to DIN VDE 0207 part 21
- Outer jacket, rubber-compound 5GM5 to DIN VDE 0207 part 21
- Colour yellow

## Properties

- Ozone resistance
- High insulation resistance
- Resistant against hot penetration
- Low abrasion
- High notch resistant
- Resistant against
- oils, fats and chemicals
- Test of oil resistant to DIN VDE 0472 part 803, test method A
- Behaviour in fire according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent
- DIN VDE 0472 part 804 test method B)
  The code identification of a <u>single core</u> jacketed of an insulated wire is black. For application as a <u>protective core</u>, the ends are to be identified with grenn-yellow and

the middle conductor with light blue.

#### Note

- G = with green-yellow earth core;
   x = without green-yellow earth core.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Are suited as a connecting cable for very high mechanical stress in underground mining and tools for use in industries and outdoor use. They are also used for mining industry, surface mining, stone-pits, on building sites, outdoors as well as indoors. Suitable for fixed installation on plaster in dry, damp and wet areas. A long duration of life is guaranteed under extreme operating conditions. Not suitable for drumming and use in all types of machinery, such as robots, handling units and energy transfer units, where constant mobility is essential. The insulation of a plastic-rubber compound on EPR basis improves the resistance to ozone in order to avoid the formation of cracks due to ozone and insulation damages in switch-boards.

C ← The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No.cores x cross-sec. mm²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.	Part no.
38001	1 x 16	11,5	154,0	336,0	6	38023
38002	1 x 25	14,5	240,0	473,0	4	38024
38003	1 x 35	15,5	336,0	635,0	2	38025
38004	1 x 50	18,0	480,0	866,0	1	38026
38005	1 x 70	20,5	672,0	1145,0	2/0	38027
38006	1 x 95	23,0	912,0	1475,0	3/0	38028
38007	1 x 120	25,0	1152,0	1832,0	4/0	38029
38008	1 x 150	28,0	1440,0	2000,0	300 kcmil	38030
38009	1 x 185	30,0	1776,0	2450,0	350 kcmil	38031
38010	1 x 240	33,0	2304,0	3190,0	500 kcmil	38035
38011	2 x 2,5	13,2	48,0	205,0	14	38036
38012	3 G 1,5	12,5	43,0	173,0	16	38037
38013	3 G 2,5	14,0	72,0	247,0	14	38038
38014	3 G 4	16,8	115,0	336,0	12	38032
38015	3 G 6	18,1	173,0	520,0	10	38039
38016	4 G 1,5	16,0	58,0	210,0	16	38033
38017	4 G 2,5	19,0	96,0	305,0	14	38040
38018	4 G 4	21,5	154,0	415,0	12	38034
38019	4 G 6	23,0	230,0	641,0	10	
38020	4 G 10	27,5	384,0	1113,0	8	
38021	4 G 16	37,0	614,0	1412,0	6	
38022	4 G 25	39,0	960,0	2095,0	4	

Part no.	No.cores x cross-sec.	Outer Ø approx. mm	Cop. weight	Weight approx.	AWG-No.	
	mm <sup>2</sup>		kg / km	kg / km		
38023	4 G 35	42,5	1344,0	2777,0	2	
38024	4 G 50	49,0	1920,0	3817,0	1	
38025	4 G 70	53,5	2688,0	5071,0	2/0	
38026	4 G 95	61,5	3648,0	6636,0	3/0	
38027	4 G 120	68,0	4608,0	7000,0	4/0	
38028	5 G 1,5	17,0	72,0	252,0	16	
38029	5 G 2,5	20,0	120,0	362,0	14	
38030	5 G 4	23,0	192,0	509,0	12	
38031	5 G 6	26,5	288,0	798,0	10	
38035	5 G 10	30,0	480,0	1120,0	8	
38036	5 G 16	34,0	768,0	1680,0	6	
38037	5 G 25	42,0	1200,0	2430,0	4	
38038	7 G 1,5	19,5	101,0	470,0	16	_
38032	7 G 2,5	21,5	168,0	546,0	14	
38039	10 G 1,5	19,8	144,0	560,0	16	_
38033	12 G 2,5	28,0	288,0	851,0	14	
38040	18 G 2,5	33,0	432,0	1230,0	14	_
38034	19 G 2,5	29,2	466,0	1260,0	14	

Dimensions and specifications may be changed without prior notice. (RF01)

