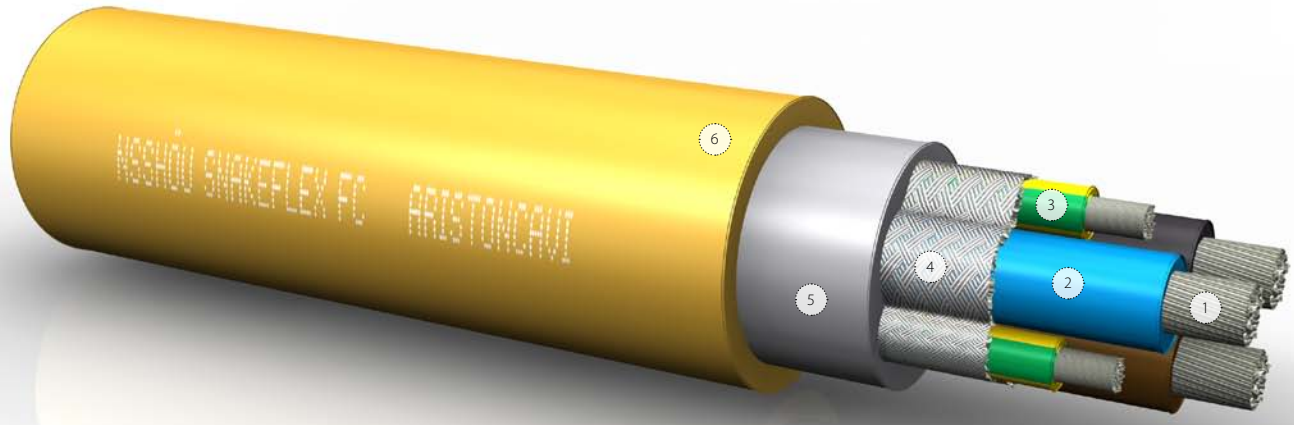
SNAKEFLEX FC 0,6/1 kV

Based on DIN VDE 0250 Part 812

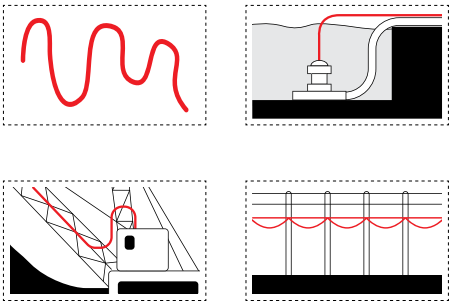


Cable construction

1	**Phase Conductors**	Conductor material	Tinned copper
		Conductor construction	Class 5 VDE 0295 (IEC 60228)
2	**Insulation**	Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
		Nominal thickness	According to VDE 0250 Part 812
	Cores identification		According to VDE 0293 Part 308 (HD 308)
3	**Earth Conductors**	Material	Tinned copper
		Conductor construction	Class 5 VDE 0295 (IEC 60228)
		Insulation material	3GI3 quality rubber compound, according to VDE 0207 Part 20
4	**Overall Screen**	Material	Tinned copper
		Construction	Copper braid
5	**Inner Sheath**	Material	Rubber compound GM1b quality, according to VDE 0207 Part 21
6	**Outer Sheath**	Material	Rubber compound 5GM5 quality, according to VDE 0207 Part 21
		Colour	Yellow



Main applications



Applications Heavy duty tough rubber flexible cable for dynamic or static applications and in aggressive environments. Flame retardant, abrasion, cut, notch and tear resistant. Good resistance to oil and fats. SNAKEFLEX FC is suitable for installation inside or outside in dry, damp or wet environments and in hazardous environments (subject to local regulations). For power supplies and controlling in mines, quarries, industrial plants, ports, infrastructure, agriculture and mobile equipment where high levels of mechanical stress and abrasion are expected. The overall screen provides a high level of electrical safety with EMC protection and makes the cable especially suitable for frequency converter controlled drives. SNAKEFLEX FC can be permanently submersed in fresh water, salt water, waste water, storm water, oily water and sewage contaminated water to a depth of 100 meters.

Electrical working data

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	3
Max AC voltage	kV	0,7/1,2
Max DC voltage	kV	1,8
Current rating	A	According to VDE 0298 Part 4

Thermal working data

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Ambient temperature: mobile condition	°C	- 25 to + 80
Ambient temperature: static condition	°C	- 40 to + 80

Mechanical working data

Bending radius	mm	According to VDE 0298 Part 3
Submersible	m	100
Maximum tensile load*	N/mm^2	15

* Referred to the total phase conductors cross section

Chemical working data

Burning behaviour	Flame retardant according to IEC 60332-1-2
Resistance to oil	According to IEC 60811-2-1
Ozone resistance	According to IEC 60811-2-1
Weather resistance	For indoor and outdoor application

SNAKEFLEX FC 0,6/1 kV



Voltage	Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Screen cross section (approx)	Approx weight	Max tensile load
kV	Nr x mm²	mm	mm	mm	mm²	kg/km	N
0,6/1	3x16 + 3x2,5	4,8	24,6	27,1	12	1170	720
0,6/1	3x25 + 3x4	6,1	28,4	31,1	15	1650	1125
0,6/1	3x35 + 3x16/3	7,2	31,9	33,6	22	2200	1575
0,6/1	3x50 + 3x25/3	8,9	37,6	39,3	25	3110	2250
0,6/1	3x70 + 3x35/3	10,6	41,4	44,2	30	3990	3150
0,6/1	3x95 + 3x50/3	12,5	47,7	49,4	34	5080	4275
0,6/1	3x120 + 3x70/3	14,2	51,6	53,4	38	6250	5400
0,6/1	3x150 + 3x70/3	15,9	56,5	58,3	53	7450	6750
0,6/1	3x185 + 3x95/3	17,7	62,4	64,4	59	9200	8325
0,6/1	3x240 + 3x120/3	20,1	68,4	71,3	67	11700	10800



