PURFLEX HF (C) 0,6/1 kV

Based on AC specifications

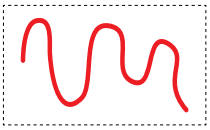


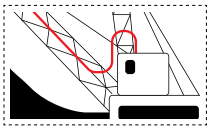
Cable construction

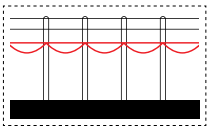
1	**Phase Conductors**	Conductor material	Flexible bare copper
		Conductor construction	Class 5 VDE 0295 (IEC 60228)
2	**Insulation**	Insulation material	EPR based compound
	Cores identification		According to VDE 0293 Part 308 (HD 308)
3	**Inner Sheath**	Material	Rubber filler
	Overall screen (if present)	Material	Bare copper
		Construction	Braid (min. coverage 70%)
4	**Outer Sheath**	Material	HFFR Halogen Free Flame Retardant polyurethane
		Colour	Orange



Main applications







Applications Highly flexible, halogen free polyurethane sheathed cable, for use in dry or wet environments. Suitable for application where mechanical stress and abrasion are expected. Examples: power leads for electric tools such as drills, disk saws and for portable motors and generators on building sites, in industry, or equipment with vibrations and in agriculture, mines, ports and naval sites. Also suitable for permanent low temperature application in cold rooms and for situations where the cable is subjected to strong abrasion and tearing stress. The halogen free characteristic makes it suitable for use in closed or confined areas, like tunnel drilling and underground mining sites.

Electrical working data

Nominal rated voltage U_0 / U	kV	0,6/1
Test voltage	kV	4
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	- 50 to + 80

Mechanical working data

Bending radius	mm	According to VDE 0298 Part 3
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 Halogen free according to IEC 60754-1 and IEC 60754-2
Resistance to oil	According to IEC 60811-2-1
Ozone resistance	According to IEC 60811-2-1
Weather resistance	For indoor and outdoor application

PURFLEX HF 0,6/1 kV

Voltage	Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Approx weight	Max tensile load
kV	Nr x mm²	mm	mm	mm	kg/km	N
0,6/1	1x1,5	1,5	5,9	6,6	50	23
0,6/1	1x2,5	1,9	6,6	7,3	66	38
0,6/1	1x4	2,4	7,2	7,9	84	60
0,6/1	1x6	2,9	7,8	8,5	107	90
0,6/1	1x10	3,8	9,1	9,8	159	150
0,6/1	1x16	4,8	10,3	11,0	222	240
0,6/1	1x25	6,1	11,9	12,6	418	375
0,6/1	1x35	7,2	13,0	13,7	591	525
0,6/1	1x50	8,9	15,3	16,0	794	750
0,6/1	1x70	10,6	16,7	17,4	319	1050
0,6/1	1x95	12,3	19,4	20,1	1044	1425
0,6/1	1x120	13,8	21,0	22,2	2018	1800
0,6/1	1x150	15,5	23,4	24,6	1298	2250
0,6/1	1x185	17,0	25,8	27,0	1646	2775
0,6/1	1x240	19,5	28,8	30,0	2573	3600
0,6/1	1x300	22,2	31,8	33,0	3200	4500
0,6/1	3x50 + 3x25/3	8,9	32,3	33,5	2750	2250
0,6/1	3x70 + 3x35/3	10,6	36,3	37,5	3646	3150
0,6/1	3x95 + 3x50/3	12,3	41,7	42,9	4762	4275
0,6/1	3x120 + 3x70/3	13,8	45,6	47,3	5993	5400
0,6/1	3x150 + 3x70/3	15,5	50,8	52,6	7132	6750
0,6/1	3x185 + 3x95/3	17,0	56,0	57,8	9089	8325
0,6/1	3x240 + 3x120/3	19,5	63,0	65,3	11486	10800

Voltage	Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Approx weight	Max tensile load
kV	Nr x mm²	mm	mm	mm	kg/km	N
0,6/1	4x1,5	1,5	10,1	10,7	162	90
0,6/1	4x2,5	1,9	11,7	12,3	236	150
0,6/1	4x4	2,4	13,7	14,3	336	240
0,6/1	4x6	2,9	15,5	16,1	449	360
0,6/1	4x10	3,8	20,0	21,1	752	600
0,6/1	4x16	4,8	22,5	23,6	1042	960
0,6/1	4x25	6,1	27,4	28,5	1555	1500
0,6/1	4x35	7,2	30,3	31,5	2022	2100
0,6/1	4x50	8,9	35,9	37,1	2884	3000
0,6/1	4x70	10,6	40,5	42,2	3885	4200
0,6/1	4x95	12,3	46,5	48,2	5114	5700
0,6/1	4x120	13,8	51,0	52,8	6322	7200
0,6/1	4x150	15,5	57,0	58,8	7840	9000
0,6/1	4x185	17,0	62,7	65,0	9700	11100

PURFLEX HF C 0,6/1 kV



Voltage	Cores x cross section	Conductor Ø	Min overall Ø	Max overall Ø	Approx weight	Max tensile load
kV	Nr x mm²	mm	mm	mm	kg/km	N
0,6/1	3x16 + 3x2,5	4,8	23,9	25,9	1020	720
0,6/1	3x25 + 3x4	6,1	27,9	30,1	1450	1125
0,6/1	3x35 + 3x16/3	7,2	30,6	32,9	1880	1575
0,6/1	3x50 + 3x25/3	8,9	35,5	38,0	2650	2250
0,6/1	3x70 + 3x35/3	10,6	39,7	42,8	3580	3150
0,6/1	3x95 + 3x50/3	12,3	44,9	48,3	4500	4275
0,6/1	3x120 + 3x70/3	13,8	49,0	52,5	5650	5400
0,6/1	3x150 + 3x70/3	15,5	55,1	58,9	6870	6750
0,6/1	3x185 + 3x95/3	17,0	60,1	64,6	8450	8325
0,6/1	3x240 + 3x120/3	19,5	66,9	71,7	10900	10800