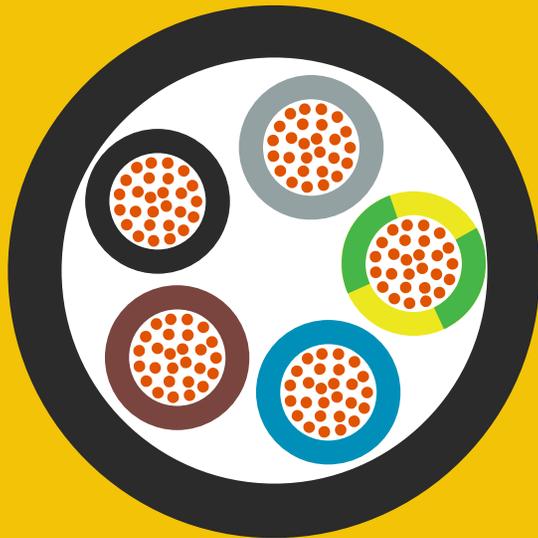




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CKS SAPFLEX PS513

Halogen-free; Long-run submersion; Bending/Loop Torsion (WTG); -40 °C to +90 °C; UV/Ozone resistant



CKS SAPFLEX PS513

CKS Sapflex PS513- <HAR>, power and control cable, 450/750 V, submersion to a depth of 100m (AD8), ozone/oil-resistant, class 5, -40°C to +90°C, halogen-free, flame-retardant

Halogen-free & Low Smoke density
 Loop Torsion/Flexible: -40°C to +90°C
 100m long-run submersion

ADVANTAGES

Arrangements made of single-core, rubber-sheathed cables H07RN-F can be used for short circuit-proof and short-to-ground-proof installations in accordance with IEC 60364-5-52/ HD 60364-5-52/ VDE 0100 More water-resistant
 Conductor temperature range more suitable for outdoor installation and wider



APPLICATION RANGE

Medium, mechanical stress and industrial and agricultural use as well as for handheld and power supply devices according to EN 50565-2
 Drip loop torsion between the nacelle and the tower of wind turbine generators/ windmills
 Outdoors acc. EN 50565-2
 For buildings or industrial plants with a high density of people or valuable assets

PRODUCT FEATURES

Oil resistant according to EN 60811-404; Good resistance to abrasion, atmospheric agents, grease and mineral oils
 Ozone- (acc. EN 60811), UV-, Cold- (-40 °C flexible at the conductor) and Heat-resistant (+90 °C at the conductor)
 Drip loop torsion resistant (wind turbine) ==>TW-0, TW-1 and TW-2: -40 °C to +90 °C/ 2,000 cycles (5,000 cycles from +5 °C)/ torsion angle of +/-150 ° per metre at one revolution per minute
 Long-time water submersion (AD8) down to 100 m without interruption (no drinking water, minimum water temperature of +5 °C, standing water only, no areas with boat/ ship/ submarine traffic)
 Halogen-free according to EN 60754
 Flame-retardant according to IEC 60332-1-2 and low smoke density (LS) according to EN 61034-2

PRODUCT MAKE-UP

Conductor made of bare copper wires
 Core insulation: special rubber
 Outer sheath: special rubber compound

TECHNICAL DATA

Classification ETIM 5	ETIM 5.0 Class-ID: Ec001578 ETIM 5.0 Class-Description: Flexible cable
Classification ETIM 6	ETIM 6.0 Class-ID: EC001578 ETIM 6.0 Class-Description: Flexible cable
Conductor stranding	Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
Minimum bending radius	Moved: 6 x Outer diameter Fixed installation: 4 x Outer diameter
Torsion movement in WTG	TW-0 & TW-2, refer to Appendix T0
Nominal voltage	U0/U: 450/750 V
Test voltage	2500 V AC

Protective conductor G = with GN-YE protective conductor
 X = without protective conductor

Current rating according to data sheet

Temperature range Occasionally moved: -40°C to +90°C

ELECTRICAL INFORMATION

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS SAPFLEX PS513				
CKS PS5013 0103	3 X 1.0	8,3 - 10,7	28,8	140
CKS PS5013 0104	4 X 1.0	9,2 - 11,9	38,4	160
CKS PS5013 0105	5 X 1.0	10,2 - 13,1	48	200
CKS PS5013 5101	1 X 1.5	5,7 - 7,1	14,4	55
CKS PS5013 5102	2 X 1.5	8,5 - 11	28,8	125
CKS PS5013 5103	3 G 1.5	9,2 - 11,9	43,2	172
CKS PS5013 5104	4 X 1.5	10,2 - 13,1	57,6	200
CKS PS5013 5105	5 X 1.5	11,2 - 14,4	72	250
CKS PS5013 5107	7 X 1.5	14,7 - 18,7	100,8	430
CKS PS5013 51012	12 X 1.5	17,6 - 22,4	172,8	620
CKS PS5013 5201	1 X 2.5	6,3 - 7,9	24	72
CKS PS5013 5202	2 X 2.5	10,2 - 13,1	48	173
CKS PS5013 5203	3 X 2.5	10,9 - 14	72	225
CKS PS5013 5204	4 X 2.5	12,1 - 15,5	96	285
CKS PS5013 5205	5 G 2.5	13,3 - 17	120	345
CKS PS5013 52012	12 G 2.5	20,6 - 26,2	288	850
CKS PS5013 0401	1 X 4.0	7,2 - 9	38,4	98
CKS PS5013 0402	2 X 4.0	11,8 - 15,1	76,8	239
CKS PS5013 0403	3 G 4.0	12,7 - 16,2	115,2	325
CKS PS5013 0402	4 G 4.0	14 - 17,9	153,6	395
CKS PS5013 0405	5 G 4.0	15,6 - 19,9	192	485
CKS PS5013 0601	1 X 6.0	7,9 - 9,8	57,6	127
CKS PS5013 0602	2 X 6.0	13,1 - 16,8	115,2	330
CKS PS5013 0603	3 G 6.0	14,1 - 18	172,8	415
CKS PS5013 0602	4 G 6.0	15,7 - 20	230,4	535
CKS PS5013 0605	5 G 6.0	17,5 - 22,2	288	648

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS PS5013 01001	1 X 10.0	9,5 - 11,9	96	192
CKS PS5013 01002	2 X 10.0	17,7 - 22,6	192	590
CKS PS5013 01003	3 G 10.0	19,1 - 24,2	288	712
CKS PS5013 01004	4 G 10.0	20,9 - 26,5	384	920
CKS PS5013 01601	1 X 16.0	10,8 - 13,4	153,6	262
CKS PS5013 01603	3 G 16.0	21,8 - 27,6	460,8	990
CKS PS5013 01604	4 G 16.0	23,8 - 30,1	614,4	1290
CKS PS5013 02501	1 X 25.0	12,7 - 15,8	240	375
CKS PS5013 02503	3 G 25.0	26,1 - 33	720	1395
CKS PS5013 02504	4 G 25.0	28,9 - 36,6	960	1930
CKS PS5013 02505	5 G 25.0	32 - 40,4	1200	2500
CKS PS5013 03501	1 X 35.0	14,3 - 17,9	336	493
CKS PS5013 03503	3 G 35.0	29,3 - 37,1	1008	1815
CKS PS5013 03504	4 G 35.0	32,5 - 41,4	1344	2470
CKS PS5013 03505	5 G 35.0	35,7 - 45,1	1680	3250
CKS PS5013 05001	1 X 50.0	16,5 - 20,6	480	675
CKS PS5013 03503	3 G 50.0	34,1 - 42,9	1440	2470
CKS PS5013 05004	4 G 50.0	37,7 - 47,5	1920	3320
CKS PS5013 05005	5 G 50.0	41,8 - 53	2400	4408
CKS PS5013 07001	1 X 70.0	18,6 - 23,3	672	914
CKS PS5013 07004	4 G 70.0	42,7 - 54	2688	4420
CKS PS5013 07005	5 G 70.0	47,5 - 60	3360	5863
CKS PS5013 09501	1 X 95.0	20,8 - 26	912	1200
CKS PS5013 09504	4 G 95.0	48,4 - 61	3648	5750
CKS PS5013 09505	5 G 95.0	54 - 67	4560	7537
CKS PS5013 012001	1 X 120.0	22,8 - 28,6	1152	1481
CKS PS5013 012004	4 G 120.0	53 - 66	4608	6990
CKS PS5013 015001	1 X 150.0	25,2 - 31,4	1440	1833
CKS PS5013 015004	4 G 150.0	58 - 73	5760	8650
CKS PS5013 018501	1 X 185.0	27,6 - 34,4	1776	2190
CKS PS5013 018504	4 G 185.0	64 - 80	7104	9785
CKS PS5013 024001	1 X 240.0	30,6 - 38,3	2304	2780
CKS PS5013 030001	1 X 300.0	33,5 - 41,9	2880	3310
CKS PS5013 040001	1 X 400.0	37,4 - 46,8	3840	4320
CKS PS5013 050001	1 X 500.0	41,3 - 52	4800	5342