



HALLEY CABLES

BIRTFLEX 6512 PUR

Control cables

TPE-E insulated, PUR (polyurethane) sheathed, extra flexible, oil resistant cable



Construction:

Conductor	: extra flexible copper wires, plain; IEC 60228 Class 6, DIN EN 60228 Class 6.
Insulation	: special compound, TPE-E*.
Core identification	: according to DIN EN 50334 black cores with white numerals with green/yellow from 3 cores.
Lay-up	: cores laid up in layers of optimum pitch.
Separator	: textile material, at each layer.
Outer sheath	: PUR (polyurethane) compound, 11YM1.
Sheath colour	: RAL 7001, Grey (to be agreed upon the shade of grey).

Technical data and tests:

Standard	: HD 21.13 S1; DIN VDE 0281-13; DIN VDE 0282-10.
Insulation resistance	: min. 50 M Ω /km.
Rated voltage U ₀ /U	: 300 / 500 V.
Test voltage (50 Hz)	: 2000 V.
Temperature range	: fixed : - 50° C ~ + 80° C; mobile: - 40° C ~ + 70° C.
Min. bending radius	: fixed : 4 x D; mobile: 7.5 x D.
Flame retardance test	: IEC 60332-1 & EN 50265-2-1
Oil test	: IEC 60811-2-1.

* TPE-E - thermoplastic ether ester block copolymer elastomer.

Applications:

These cables are highly-flexible, resistant to extreme mechanical loads, oil, cold, and are designed for applications where cable flexibility is needed. They are built to survive high service periods and can be used for instrumentation, control and connection of control units in mechanical tool constructions, conveyor and assembly lines, production lines and any areas where continuous bending loads are exerted and free movement with no pulling force and low tensile forced movement is required; the environments in which these cables can be installed vary from dry to wet.



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DIMENSIONS

No. of Cores x Cross Section mm ²	Approx. Outer Diameter mm	Copper Weight Kg/km	Approx. Cable Weight Kg/km
3G0,50	6,6	14	55
4G0,50	7,2	19	65
5G0,50	7,8	24	80
7G0,50	9,4	34	115
12G0,50	11,7	58	175
18G0,50	14,5	87	250
25G0,50	15,9	120	345
34G0,50	19,3	163	475
3G0,75	6,9	22	60
4G0,75	7,7	29	75
5G0,75	8,7	36	100
7G0,75	9,9	50	140
12G0,75	12,4	86	215
18G0,75	14,5	130	305
25G0,75	17,9	180	425
34G0,75	20,5	245	590
3G1,0	7,4	29	70
4G1,0	8,0	38	95
5G1,0	9,3	48	120
7G1,0	10,1	67	150
12G1,0	13,5	116	250
18G1,0	15,7	173	385
25G1,0	19,5	240	535
34G1,0	21,9	326	700
3G1,5	8,1	43	90
4G1,5	9,2	58	125
5G1,5	10,2	72	155
7G1,5	11,3	101	200
12G1,5	14,4	174	325
18G1,5	17,3	260	505
25G1,5	21,0	360	690
34G1,5	23,4	489	920

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