



HALLEY CABLES

NYSLYCYÖ-JZ/OZ 70° C (HO5VVC4V5-K)

Control Cables 300/500 V

PVC insulated, oil resistant, PVC sheathed cable



Construction:

- Conductor : flexible copper wires, class 5.
- Insulation : PVC compound, T12.
- Core identif. : 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.
- Inner sheath : PVC compound, TM2, RAL 7001, grey.
- Screen : braid of tinned copper wires, 85% coverage.
- Outer sheath : PVC compound, TM5, oil and flame resistant.
- Sheath colour : RAL 7001, grey.

Technical data and tests:

- Rated voltage U_o/U : 300/500 V.
- Test voltage (AC 50 Hz) : 2000 V.
- Temperature range : operation : - 40° C ~ + 70° C;
installation : - 5° C ~ + 70° C.
- Insulation resistance : min. 20 MΩ/km.
- Min. bending radius : fixed : 6 x D.
mobile : 12,5 x D.
- Transfer impedance : max. 250 Ω/km @ 30 MHz.

EMC* - electromagnetic compatibility.

Standards:

- Design : HD 21.13 S1, DIN VDE 0281-13.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Flame retardance : IEC 60332-1 & EN 50265-2-1.
- Oil resistance : IEC 60811-2-1.

Applications:

These screened oil and flame resistant flexible cables are used in mechanical engineering for instrumentation and control equipment, in tooling machinery, production lines and flexible applications which require free movement without tensile load and without forced movement. They can be installed in dry, moist and wet rooms. The screen above the inner sheath protects against external interference pulses and ensures an interference-free transmission. Transfer impedance is max. 250 Ω/km at 30MHZ. These cables should not be used for outdoor or underground installation.

Any other construction available upon request.



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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
0,50 mm ²			
3G0,50	8,4	42	100
4G0,50	9,1	50	120
5G0,50	10,2	55	140
7G0,50	11,3	75	165
10G0,50	13,5	105	245
12G0,20	13,8	125	285
16G0,50	15,4	152	350
18G0,50	16,8	165	400
21G0,50	18,1	180	440
24G0,50	19,4	190	480
25G0,50	19,7	196	505
30G0,50	20,5	230	550
34G0,40	21,5	245	625
36G0,50	22,0	260	650
40G0,50	23,4	340	700
42G0,50	23,8	360	730
48G0,50	25,0	390	840
50G0,50	25,7	400	890
52G0,50	26,2	428	920
60G0,50	27,2	480	1050
0,75 mm ²			
3G0,75	8,7	50	110
4G0,75	9,9	60	145
5G0,75	10,6	75	170
7G0,75	11,8	94	215
10G0,75	14,2	125	300
12G0,75	14,8	155	305
16G0,75	16,2	185	400
18G0,75	17,8	210	455
21G0,75	19,2	245	500
24G0,75	20,6	270	590
25G0,75	21,0	280	610
30G0,75	22,1	325	715
34G0,75	23,4	360	805
36G0,75	24,0	385	830
40G0,75	25,0	435	890
42G0,75	25,6	450	910
48G0,75	26,7	505	1090
50G0,75	27,4	540	1150
52G0,75	27,8	560	1200
60G0,75	30,0	620	1350

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1,0 mm ²			
3G1,0	9,6	60	135
4G1,0	10,8	75	165
5G1,0	11,5	85	195
7G1,0	12,4	115	230
10G1,0	14,9	165	335
12G1,0	16,6	195	405
16G1,0	18,1	235	515
18G1,0	19,4	265	590
21G1,0	20,5	305	650
24G1,0	22,4	325	710
25G1,0	22,8	340	730
30G1,0	23,5	395	850
34G1,0	25,8	445	945
36G1,0	26,2	470	1020
40G1,0	27,6	540	1090
42G1,0	28,0	570	1130
48G1,0	29,0	630	1240
50G1,0	29,7	660	1270
52G1,0	30,0	690	1350
60G1,0	31,8	830	1500
1,5 mm ²			
3G1,5	7,9	43	90
4G1,5	9,0	58	125
5G1,5	10,0	72	155
7G1,5	11,1	101	200
10G1,5	13,7	144	300
12G1,5	14,2	174	325
16G1,5	16,2	201	430
18G1,5	17,1	260	505
21G1,5	18,4	302	580
24G1,5	20,5	345	655
25G1,5	20,8	360	690
30G1,5	21,7	432	790
34G1,5	23,2	489	920
36G1,5	23,5	519	935
40G1,5	24,6	577	1040
42G1,5	25,2	606	1095
48G1,5	27,0	690	1230
50G1,5	27,9	720	1320
52G1,5	29,0	749	1355
60G1,5	30,6	864	1560

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No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2,5 mm ²			
3G2,5	12,1	115	240
4G2,5	13,2	140	285
5G2,5	14,2	185	330
7G2,5	15,8	240	440
10G2,5	19,0	325	600
12G2,5	21,0	390	720
16G2,5	23,5	480	940
18G2,5	25,4	555	1000
21G2,5	27,0	650	1200
24G2,5	29,4	750	1340
25G2,5	30,0	790	1380
30G2,5	31,5	820	1610
34G2,5	33,4	990	1650
36G2,5	34,0	1080	1775
40G2,5	35,6	1280	1930
42G2,5	36,2	1400	2050
≥4 mm ² up to 95 mm ²			
4G4	15,5	280	420
5G4	16,5	320	480
7G4	18,4	370	600
4G6	17,5	350	560
5G6	20,0	430	680
4G10	22,2	525	935
5G10	25,1	700	1100
4G16	25,5	890	1200
5G16	28,6	1030	1450
4G25	33,8	1250	1760
5G25	37,1	1700	2150
4G35	35,0	1550	2240
5G35	39,2	1900	2750
4G50	40,4	2100	3250
4G70	50,5	3100	4500
4G95	54,0	3950	5850

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