

BIRTFLEX 552 / YSLY
PVC INSULATED, CONTROL CABLES



APPLICATION: These flexible connecting cables are more thinner and lighter than the other control cables and used in mechanical engineering for instrumentation and control equipment for tooling machinery production lines and flexible applications for free movement without tensile load and dry, ambient, wet places. These cables are not used for outdoor or underground installation.

CABLE DESIGN

Conductor : Flexible copper wires, plain;
IEC 60228 Class 5, TS/DIN EN 60228 Class 5
Insulation : PVC compound, T12
Core identification : Acc. to TS/DIN EN 50334 black cores with
white numerals with green/yellow from 3 cores
Lay-up : Cores laid up in layers of optimum pitch
Outer sheath : PVC compound, TM2
Sheath colour : RAL 7001, Grey

TECHNICAL DATA

Standard : TS HD 21.13 S1, DIN VDE 0281-13
VDE 0245-102
(Designed according to)
Insulation resistance : Min. 20 MΩ.km
Rated voltage : 300 / 500V
Test voltage : 4000 V
(AC 50 Hz)
Temperature range : Fixed : - 40 °C ~ + 70 °C
Mobile : - 5 °C ~ + 70 °C
Min. bending radius : Fixed : 4 x D
Mobile : 12,5 x D
Flame retardance test : IEC 60332-1 & EN 50265-2-1

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 05 002	2x0.50 -OZ	4.8	10	35
1001 05 003	3G0.50	5.1	14	41
1001 05 004	4G0.50	5.5	19	49
1001 05 005	5G0.50	6.2	24	60
1001 05 007	7G0.50	6.7	34	77
1001 05 012	12G0.50	9.1	58	125
1001 05 018	18G0.50	10.7	87	182
1001 05 021	21G0.50	11,2	101	215
1001 05 025	25G0.50	12.6	120	252
1001 05 034	34G0.50	13.8	163	330
1001 05 042	42G0.50	15,4	202	405
1001 05 050	50G0.50	17.2	240	490
1001 05 061	61G0.50	18.5	293	538

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 06 002	2x0.75-OZ	5.2	14	42
1001 06 003	3G0.75	5.5	22	51
1001 06 004	4G0.75	6.2	29	63
1001 06 005	5G0.75	6.7	36	78
1001 06 007	7G0.75	7.5	50	95
1001 06 012	12G0.75	9.8	86	165
1001 06 018	18G0.75	11,9	130	240
1001 06 021	21G0.75	12.5	151	288
1001 06 025	25G0.75	14.0	180	330
1001 06 034	34G0.75	16.3	245	435
1001 06 042	42G0.75	17.8	303	562
1001 06 050	50G0.75	19.1	360	630
1001 06 061	61G0.75	20.7	439	770

Cross Sections

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 07 002	2x1.0-OZ	5.6	19	52
1001 07 003	3G1.0	6.1	29	65
1001 07 004	4G1.0	6.7	38	78
1001 07 005	5G1.0	7.5	48	95
1001 07 007	7G1.0	8.1	67	120
1001 07 012	12G1.0	10.9	116	235
1001 07 018	18G1.0	12.9	173	298
1001 07 021	21G1.0	13.8	201	366
1001 07 025	25G1.0	15.4	240	400
1001 07 034	34G1.0	17.9	326	535
1001 07 042	42G1.0	19.50	404	706
1001 07 050	50G1.0	21.0	480	775
1001 07 061	61G1.0	22.7	585	980

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 08 002	2x1.5-OZ	6.4	29	65
1001 08 003	3G1.5	6.8	43	80
1001 08 004	4G1.5	7.6	58	102
1001 08 005	5G1.5	8.3	72	125
1001 08 007	7G1.5	9.2	101	166
1001 08 012	12G1.5	12.4	174	272
1001 08 018	18G1.5	14.8	260	402
1001 08 021	21G1.5	15.6	302	484
1001 08 025	25G1.5	17.6	360	555
1001 08 034	34G1.5	20.2	489	750
1001 08 042	42G1.5	22.2	606	944
1001 08 050	50G1.5	23.8	720	1110
1001 08 061	61G1.5	25.8	878	1300

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 09 002	2x2.5-OZ	7.6	48	99
1001 09 003	3G2.5	8.3	72	128
1001 09 004	4G2.5	9.0	96	159
1001 09 005	5G2.5	10.1	120	199
1001 09 007	7G2.5	11.2	168	258
1001 09 012	12G2.5	15.0	288	431
1001 09 018	18G2.5	18.0	432	636
1001 09 025	25G2.5	21.4	600	841
1001 09 034	34G2.5	25.0	816	1180
1001 09 042	42G2,5	26,4	1008	1340

Part-number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1001 10 003	3G4	10,0	115	169
1001 10 004	4G4	11,0	154	242
1001 10 005	5G4	12,5	192	302
1001 11 003	3G6	11,5	172	267
1001 11 004	4G6	13,0	230	340
1001 11 005	5G6	14,0	288	424
1001 12 003	3G10	15,0	288	465
1001 12 004	4G10	17,0	384	577
1001 12 005	5G10	18,5	480	717
1001 12 007	7G10	20,0	672	968
1001 13 003	3G16	19,0	460	825
1001 13 004	4G16	21,0	614	1022
1001 14 004	4G25	23,0	960	1234
1001 14 005	5G25	25,5	1200	1522
1001 15 004	4G35	26,0	1344	1671
1001 15 005	5G35	29,0	1680	2058
1001 16 004	4G50	31,0	1920	2360
1001 16 005	5G50	34,0	2400	2901
1001 17 004	4G70	35,6	2688	3350
1001 17 005	5G70	40,2	3360	4010
1001 18 004	4G95	41,0	3648	4450
1001 18 005	5G95	45,4	4560	5450