

BIRTFLEX 572
PVC INSULATED, CONTROL CABLES



APPLICATION: These flexible connecting cables which core colours difference from each other are more 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. The cores up to 1,5 mm² service voltage is 300/500 V and 2.5 mm² and after 2.5 mm² cores service voltage 450/750 V. These cables satisfy the HO5VV-F harmonised cables up to 5 cores and 4 mm². 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 : Coloured cores

Lay-up : Cores laid up in layers of optimum pitch

Outer sheath : PVC compound, TM2

Sheath colour : RAL 7001, Grey

TECHNICAL DATA

Standard : DIN VDE 0281-5 – VE 0281-13
VDE 0245-102
(Designed according to)

Insulation resistance : Min. 50 MΩ.km

Rated voltage : ≤ 1,5 mm² : 300 / 500V
U_o/U : ≥ 2,5 mm² : 450 / 750 V

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)
1004 05 002	2x0.50	5,0	10	38
1004 05 003	3G0.50	5,4	14	45
1004 05 004	4G0.50	5,8	19	55
1004 05 005	5G0.50	6,5	24	70
1004 05 007	7G0,50	6,7	34	85
1004 06 002	2x0.75	6,2	14	55
1004 06 003	3G0.75	6,6	22	65
1004 06 004	4G0.75	7,1	29	80
1004 06 005	5G0.75	8,0	36	100
1004 06 007	7G0.75	7,5	50	125
1004 07 002	2x1.0	6,6	19	60
1004 07 003	3G1.0	6,9	29	75
1004 07 004	4G1.0	7,7	38	100
1004 07 005	5G1.0	8,4	48	125
1004 07 007	7G1.0	8,1	67	145
1004 08 002	2x1.5	7,2	29	85
1004 08 003	3G1.5	7,8	43	105
1004 08 004	4G1.5	8,8	58	120
1004 08 005	5G1.5	9,8	72	145
1004 08 007	7G1.5	9,2	101	195

Part - number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1004 09 002	2x2,5	8,9	48	115
1004 09 003	3x2,5	9,5	72	140
1004 09 004	4x2,5	10,4	96	205
1004 09 005	5x2,5	11,6	120	240
1004 09 007	7x2,5	11,2	168	330
1004 10 002	2x4	10,5	77	180
1004 10 003	3x4	11,0	116	230
1004 10 004	4x4	12,8	154	280
1004 11 003	3x6	13,0	173	330
1004 11 004	4x6	14,1	230	390
1004 12 004	4x10	18,1	384	725
1004 13 004	4x16	21,3	614	925
1004 14 004	4x25	26,4	960	1625
1004 15 004	4x35	29,8	1344	2130
1004 16 004	4x50	35,2	1920	2950
1004 17 004	4x70	39,7	2688	4080
1004 18 004	4x95	46,1	3648	5500
1004 19 004	4x120	53,0	4608	6950
1004 20 004	4x150	56,5	5760	7800
1004 21 004	4x185	59,8	7104	8200
1004 22 004	4x240	70,2	9210	10500