

BIRTFLEX-EF 656PVC INSULATED, , EXTRA FLEXIBLE, HIGH TEMPERATURE
OIL RESISTANT CONTROL CABLES

APPLICATION: These high temperature 90°C grade, oil resistance high-flexibility control cables are designed for applications where cable flexibility is needed. These cables are used for instrumentation ,control and connecting of control units in mechanical tool construction, conveyor and assembly lines, production lines, any areas where continuous bending loads for free movement without tensile load forced movement in the cable trailing chain is required.

CABLE DESIGN

Conductor : Extra flexible copper wires, plain;
IEC 60228 Class 6, TS/DIN EN 60228 Class 6

Insulation : PVC compound ,90° grade, T13

Core : Acc. to TS/DIN EN 50334 black cores with white
identification : numerals with green/yellow from 3 cores

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

Separator : Textile bandaging

Outer sheath : Oil and flame resistant PVC compound, 90°C

Sheath colour : RAL 7001,Grey

TECHNICAL DATA

Standard : TS HD 21.13 S1, DIN VDE 0281-13
TS HD 21.12 S1, DIN VDE 0281-12
(Designed according to)

Insulation resistance : Min. 50 MΩ.km

Rated voltage U_o/U : 300 / 500V

Test voltage (AC 50 Hz) : 4000 V

Temperature range : Fixed: - 40 °C ~ + 90 °C
Mobile: - 5 °C ~ + 90 °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

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)
1015 05 003	3G0.50	6,6	14	55
1015 05 004	4G0.50	7,2	19	65
1015 05 005	5G0.50	7,8	24	80
1015 05 007	7G0.50	9,4	34	115
1015 05 012	12G0.50	11,7	58	175
1015 05 018	18G0.50	14,5	87	250
1015 05 025	25G0.50	15,9	120	345
1015 05 034	34G0.50	19,3	163	475
1015 06 003	3G0.75	6,9	22	60
1015 06 004	4G0.75	7,7	29	75
1015 06 005	5G0.75	8,7	36	100
1015 06 007	7G0.75	9,9	50	140
1015 06 012	12G0.75	12,4	86	215
1015 06 018	18G0.75	14,5	130	305
1015 06 025	25G0.75	17,9	180	425
1015 06 034	34G0,75	20,5	245	590

Part - number	No. of cores x Cross section (mm ²)	Approx. Outer Diameter (mm)	Copper Weight (Kg/km)	Approx. Cable Weight (Kg/km)
1015 07 003	3G1.0	7,4	29	70
1015 07 004	4G1.0	8,0	38	95
1015 07 005	5G1.0	9,3	48	120
1015 07 007	7G1.0	10,1	67	150
1015 07 012	12G1.0	13,5	116	250
1015 07 018	18G1.0	15,7	173	385
1015 07 025	25G1.0	19,5	240	535
1015 07 034	34G1,0	21,9	326	700
1015 08 003	3G1.5	8,1	43	90
1015 08 004	4G1.5	9,2	58	125
1015 08 005	5G1.5	10,2	72	155
1015 08 007	7G1.5	11,3	101	200
1015 08 012	12G1.5	14,4	174	325
1015 08 018	18G1.5	17,3	260	505
1015 08 025	25G1.5	21,0	360	690
1015 08 034	34G1,5	23,4	489	920