



ÖLFLEX® 100 I

DS 38007034

valid from: 2018-03-01

Application

ÖLFLEX® 100 I cables are Power and control cables for fixed and flexible installation for industrial use. They are for use in dry, damp and wet atmosphere. At room temperature they are generally resistant against acids, caustics solution and certain oils. ÖLFLEX® 100 I cables are used in machine tool application, plant engineering, in panels, in heating and air conditioning installations etc. Suitable for freely moved without forced guidance and tensile stress. Plant engineering Industrial machinery heating and air-conditioning systems Power stations. Dry or damp rooms that are subject to medium mechanical loads. For fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load

Design

Conductor	annealed bare copper, Class V in acc. to IS 8130/IEC 60228
Approval	IS 694:2010
Insulation	PVC compound type A in acc. to IS 5831:1984
Core identification	Colour coded as per IS 694. 2 core – red & black 3 core – red, black, yellow/green or red, yellow, blue 4 core – red, yellow, blue, yellow/green or red, yellow, blue, black 5 core – red, yellow, blue, black, grey
Outer sheath	PVC ST1 in accordance to IS 5831 grey to RAL 7001.
Current Rating	in acc. to IS 3961
CE approval	certified to use CE marking on the product.

Electrical properties

Nominal voltage	1100 V
Test voltage	4000 V AC core to core.

Mechanical properties

Min. bending radius	occasional flexing:	15 x cable OD
	fixed installation:	6 x cable OD
Temperature range	occasional flexing:	-15 °C up to +70 °C max. conductor temperature

Flame and other tests

Flammability	in acc. with IS 10810-53 / IEC 60332-1
Tests	acc. to IS 5831

Special properties

This product conforms to RoHS directive (Restriction of the use of certain hazardous substances)

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Article number	Number of cores and mm ² per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.
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38007034	2 x 0.50	6.1	9	49
38007035	3 G 0.50	6.5	14	58
38007036	4 G 0.50	7.4	19	74
38007042	2 x 0.75	7.1	13	66
38007043	3 G 0.75	7.3	20	71
38007045	4 G 0.75	7.9	27	88
38007053	2 x 1.00	7	17	68
38007054	3 G 1.00	7.4	26	80
38007055	4 G 1.00	8.5	35	104
38007064	2 x 1.50	8.1	25	91
38007065	3 G 1.50	8.6	38	110
38007066	4 G 1.50	9.8	50	141
38007067	5 x 1.50	10.7	63	166
38007074	2 x 2.50	9.2	42	126
38007075	3 G 2.50	10	63	159
38007076	4 G 2.50	11.3	84	203
38007077	5 x 2.50	12.4	106	241
38007082	3 G 4.00	12.1	105	243
38007083	4 G 4.00	13.5	140	302
38000997	5 x 4.00	14.8	175	358.6
38007092	3 G 6.00	13.1	158	311
38007093	4 G 6.00	14.5	211	390
38001015	5 x 6.00	16.2	263	474
38007094	3 G 10.00	16.9	263	648
38007095	4 G 10.00	18.8	350	762
38001016	5 x 10.00	21	438	789.2
38007096	3 G 16.00	21.6	411	1008.4
38007097	4 G 16.00	19.2	548	762
38001017	5 x 16.00	21.6	686	997
38001018	3 G 25.00	24.5	677	1160.8
38009040	4 G 25.00	27.2	903	1461
38001019	5 x 25.00	30.5	1129	1803.2
38007084	3 G 35.00	26.7	895	1456.5
38001020	4 G 35.00	29.9	1194	1850
38001021	5 x 35.00	33.5	1492	2281
38001022	3 G 50.00	31.5	1272	2130
38001023	4 G 50.00	35	1696	2730