

## ÖLFLEX® 100 I SY FR-LSH

**DS 380300205**

valid from: 2018-04-01

### Application

ÖLFLEX® 100 I SY FR-LSH cables are Power and control cables copper shielded for fixed and flexible installation for industrial use with mechanical protection. 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 SY FR-LSH cables are used in machine tool application, plant engineering, in panels, in heating and air conditioning installations etc. if protection is required against external mechanical shocks. Suitable for laying on cable trays and trenches. 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. Not suitable for direct burial.

### Design

Conductor	annealed bare copper, Class V in acc. to IS 8130/IEC 60228
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 or yellow, blue, green, white, yellow/green
Inner sheath	PVC ST1 in accordance to IS 5831 - grey to RAL 7001
Shielding	protection braid of galvanised steel wire
Outer sheath	PVC ST1 in accordance to IS 5831
Colour of sheath	PVC ST1 in accordance to IS 5831 - grey to RAL 7001. available with special properties of UV resistance and Anti Rodent Properties
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:	20 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
Oxygen index	>29 % in acc. to IS 10810 Part - 58
Temperature index	>250 °C in acc. to IS 10810 Part - 64
Smoke density	max. 60% in acc. to IS 10810 Part - 63
Acid gas generation	max. 20% by weight as per IS 10810 Part - 59

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## Special properties

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

Article number	Number of cores and mm <sup>2</sup> per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.	Article number	Number of cores and mm <sup>2</sup> per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.
<b>ÖLFLEX® 100 I SY FR-LSH</b>					380340505	5 x 2.5 GY	15.1	106	373
380300205	2 x 0.5 GY	8.8	9	120	380340525	5 x 2.5 UVAR GY	15.1	106	374
380300225	2 x 0.5 UVAR GY	8.8	9	121	380340515	5G 2.5 GY	15.1	106	373
380300305	3 x 0.5 GY	9.2	14	135	380340535	5G 2.5 UVAR GY	15.1	106	374
380300315	3G 0.5 GY	9.2	14	135	380350305	3 x 4 GY	14.5	105	375
380300325	3 x 0.5 UVAR GY	9.2	14	136	380350315	3G 4 GY	14.5	105	375
380300335	3G 0.5 UVAR GY	9.2	14	136	380350325	3 x 4 UVAR GY	14.5	105	376
380300405	4 x 0.5 GY	9.9	19	152	380350335	3G 4 UVAR GY	14.5	105	376
380300415	4G 0.5 GY	9.9	19	152	380350405	4 x 4 GY	15.9	140	454
380300425	4 x 0.5 UVAR GY	9.9	19	153	380350415	4G 4 GY	15.9	140	454
380300435	4G 0.5 UVAR GY	9.9	19	153	380350425	4 x 4 UVAR GY	15.9	140	455
380300505	5 x 0.5 GY	10.7	23	169	380350435	4G 4 UVAR GY	15.9	140	455
380300525	5 x 0.5 UVAR GY	10.7	23	170	380350505	5 x 4 GY	17.4	175	539
380300515	5G 0.5 GY	10.7	23	169	380350525	5 x 4 UVAR GY	17.4	175	540
380300535	5G 0.5 UVAR GY	10.7	23	170	380350515	5G 4 GY	17.4	175	539
380310205	2 x 0.75 GY	9.3	13	137	380350535	5G 4 UVAR GY	17.4	175	540
380310225	2 x 0.75 UVAR GY	9.3	13	138	380360305	3 x 6 GY	16.1	158	484
380310305	3 x 0.75 GY	9.7	20	151	380360315	3G 6 GY	16.1	158	484
380310315	3G 0.75 GY	9.7	20	151	380360325	3 x 6 UVAR GY	16.1	158	485
380310325	3 x 0.75 UVAR GY	9.7	20	152	380360335	3G 6 UVAR GY	16.1	158	485
380310335	3G 0.75 UVAR GY	9.7	20	152	380360405	4 x 6 GY	17.7	211	587
380310405	4 x 0.75 GY	10.5	27	171	380360415	4G 6 GY	17.7	211	587
380310415	4G 0.75 GY	10.5	27	171	380360425	4 x 6 UVAR GY	17.7	211	588
380310425	4 x 0.75 UVAR GY	10.5	27	172	380360435	4G 6 UVAR GY	17.7	211	588
380310435	4G 0.75 UVAR GY	10.5	27	172	380360505	5 x 6 GY	19.4	263	696
380310505	5 x 0.75 GY	11.3	34	206	380360525	5 x 6 UVAR GY	19.4	263	697
380310525	5 x 0.75 UVAR GY	11.3	34	207	380360515	5G 6 GY	19.4	263	696
380310515	5G 0.75 GY	11.3	34	206	380360535	5G 6 UVAR GY	19.4	263	697
380310535	5G 0.75 UVAR GY	11.3	34	207	380361205	2 x 10 GY	18.5	175	596
380320205	2 x 1 GY	9.6	17	147	380361225	2 x 10 UVAR GY	18.5	175	597
380320225	2 x 1 UVAR GY	9.6	17	148	380361305	3 x 10 GY	19.7	263	721
380320305	3 x 1 GY	10.1	26	164	380361315	3G 10 GY	19.7	263	721
380320315	3G 1 GY	10.1	26	164	380361325	3 x 10 UVAR GY	19.7	263	722
380320325	3 x 1 UVAR GY	10.1	26	165	380361335	3G 10 UVAR GY	19.7	263	722
380320335	3G 1 UVAR GY	10.1	26	165	380361405	4 x 10 GY	21.8	350	897
380320405	4 x 1 GY	10.9	35	201	380361415	4G 10 GY	21.8	350	897
380320415	4G 1 GY	10.9	35	201	380361425	4 x 10 UVAR GY	21.8	350	898
380320425	4 x 1 UVAR GY	10.9	35	202	380361435	4G 10 UVAR GY	21.8	350	898
380320435	4G 1 UVAR GY	10.9	35	202	380361505	5 x 10 GY	24	438	1071
380320505	5 x 1 GY	11.8	43	225	380361525	5 x 10 UVAR GY	24	438	1072
380320525	5 x 1 UVAR GY	11.8	43	226	380361515	5G 10 GY	24	438	1071
380320515	5G 1 GY	11.8	43	225	380361535	5G 10 UVAR GY	24	438	1072
380320535	5G 1 UVAR GY	11.8	43	226	380362305	3 x 16 GY	22.3	411	996
380330205	2 x 1.5 GY	10.3	25	168	380362315	3G 16 GY	22.3	411	996
380330225	2 x 1.5 UVAR GY	10.3	25	169	380362325	3 x 16 UVAR GY	22.3	411	997
380330305	3 x 1.5 GY	10.9	38	195	380362335	3G 16 UVAR GY	22.3	411	997
380330315	3G 1.5 GY	10.9	38	195	380362405	4 x 16 GY	24.7	548	1226
380330325	3 x 1.5 UVAR GY	10.9	38	196	380362415	4G 16 GY	24.7	548	1226
380330335	3G 1.5 UVAR GY	10.9	38	196	380362425	4 x 16 UVAR GY	24.7	548	1227
380330405	4 x 1.5 GY	11.8	50	230	380362435	4G 16 UVAR GY	24.7	548	1227
380330415	4G 1.5 GY	11.8	50	230	380362505	5 x 16 GY	27.3	686	1503
380330425	4 x 1.5 UVAR GY	11.8	50	231	380362525	5 x 16 UVAR GY	27.3	686	1504
380330435	4G 1.5 UVAR GY	11.8	50	231	380362515	5G 16 GY	27.3	686	1503
380330505	5 x 1.5 GY	12.8	63	269	380362535	5G 16 UVAR GY	27.3	686	1504
380330525	5 x 1.5 UVAR GY	12.8	63	270	380363305	3 x 25 GY	27.3	677	1498
380330515	5G 1.5 GY	12.8	63	269	380363315	3G 25 GY	27.3	677	1498
380330535	5G 1.5 UVAR GY	12.8	63	270	380363325	3 x 25 UVAR GY	27.3	677	1499
380340205	2 x 2.5 GY	12	42	226	380363335	3G 25 UVAR GY	27.3	677	1499
380340225	2 x 2.5 UVAR GY	12	42	227	380363405	4 x 25 GY	30.3	903	1888
380340305	3 x 2.5 GY	12.7	63	265	380363415	4G 25 GY	30.3	903	1888
380340315	3G 2.5 GY	12.7	63	265	380363425	4 x 25 UVAR GY	30.3	903	1889
380340325	3 x 2.5 UVAR GY	12.7	63	266	380363435	4G 25 UVAR GY	30.3	903	1889
380340335	3G 2.5 UVAR GY	12.7	63	266	380363505	5 x 25 GY	33.6	1129	2282
380340405	4 x 2.5 GY	13.8	84	318	380363525	5 x 25 UVAR GY	33.6	1129	2283
380340415	4G 2.5 GY	13.8	84	318	380363515	5G 25 GY	33.6	1129	2282
380340425	4 x 2.5 UVAR GY	13.8	84	319	380363535	5G 25 UVAR GY	33.6	1129	2283
380340435	4G 2.5 UVAR GY	13.8	84	319	380364305	3 x 35 GY	30.7	895	1900



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380364315	3G 35 GY	30.7	895	1900
380364325	3 x 35 UVAR GY	30.7	895	1901
380364335	3G 35 UVAR GY	30.7	895	1901
380364405	4 x 35 GY	34.1	1194	2374
380364415	4G 35 GY	34.1	1194	2374
380364425	4 x 35 UVAR GY	34.1	1194	2375
380364435	4G 35 UVAR GY	34.1	1194	2375
380364505	5 x 35 GY	37.8	1492	2884
380364525	5 x 35 UVAR GY	37.8	1492	2885
380364515	5G 35 GY	37.8	1492	2884
380364535	5G 35 UVAR GY	37.8	1492	2885
380365305	3 x 50 GY	35.6	1272	2631
380365315	3G 50 GY	35.6	1272	2631
380365325	3 x 50 UVAR GY	35.6	1272	2632
380365335	3G 50 UVAR GY	35.6	1272	2632
380365405	4 x 50 GY	39.6	1696	3306
380365415	4G 50 GY	39.6	1696	3306
380365425	4 x 50 UVAR GY	39.6	1696	3307
380365435	4G 50 UVAR GY	39.6	1696	3307