

ÖLFLEX® 100 I FR-LSH

DS 380800205

Valid from: 2018-03-01

Application

ÖLFLEX® 100 I FR-LSH 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 FR-LSH cables are used in machine tool application, plant engineering, in panels, in heating and air conditioning installations etc. These cables have excellent fire properties and are suitable for freely moved without forced guidance and tensile stress. Plant engineering Industrial machinery heating and air-conditioning systems Power stations. 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, Y/G **or** RED, YELLOW, BLUE

4 CORE – RED, YELLOW, BLUE, Y/G **or** RED, YELLOW, BLUE, BLACK

5 CORE – RED, YELLOW, BLUE, BLACK, GREY **or** YELLOW, BLUE, GREEN, WHITE, YELLOW/GREEN

Outer 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: 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

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

Special properties

This product conforms to

RoHS directive (Restriction of the use of certain hazardous substances)

TECHNICAL TABLE

Article No.	Product Description	Approx. OD	Cable Weight	Copper Weight
		mm	Approx. kg/km	Approx. kg/km
380800205	ÖLFLEX® 100 I FR-LSH 2 X 0.5 GY	6.1	49	9
380800225	ÖLFLEX® 100 I FR-LSH 2 X 0.5 UVAR GY	6.1	49	9
380800305	ÖLFLEX® 100 I FR-LSH 3 X 0.5 GY	6.5	58	14
380800315	ÖLFLEX® 100 I FR-LSH 3 G 0.5 GY	6.5	58	14
380800325	ÖLFLEX® 100 I FR-LSH 3 X 0.5 UVAR GY	6.5	58	14
380800335	ÖLFLEX® 100 I FR-LSH 3 G 0.5 UVAR GY	6.5	58	14
380800405	ÖLFLEX® 100 I FR-LSH 4 X 0.5 GY	7.4	74	19
380800415	ÖLFLEX® 100 I FR-LSH 4 G 0.5 GY	7.4	74	19
380800425	ÖLFLEX® 100 I FR-LSH 4 X 0.5 UVAR GY	7.4	74	19
380800435	ÖLFLEX® 100 I FR-LSH 4 G 0.5 UVAR GY	7.4	74	19
380810205	ÖLFLEX® 100 I FR-LSH 2 X 0.75 GY	7.1	66	13
380810225	ÖLFLEX® 100 I FR-LSH 2 X 0.75 UVAR GY	7.1	66	13
380810305	ÖLFLEX® 100 I FR-LSH 3 X 0.75 GY	7.3	71	20
380810315	ÖLFLEX® 100 I FR-LSH 3 G 0.75 GY	7.3	71	20
380810325	ÖLFLEX® 100 I FR-LSH 3 X 0.75 UVAR GY	7.3	71	20
380810335	ÖLFLEX® 100 I FR-LSH 3 G 0.75 UVAR GY	7.3	71	20
380810405	ÖLFLEX® 100 I FR-LSH 4 X 0.75 GY	7.9	88	27
380810415	ÖLFLEX® 100 I FR-LSH 4 G 0.75 GY	7.9	88	27
380810425	ÖLFLEX® 100 I FR-LSH 4 X 0.75 UVAR GY	7.9	88	27
380810435	ÖLFLEX® 100 I FR-LSH 4 G 0.75 UVAR GY	7.9	88	27
380820205	ÖLFLEX® 100 I FR-LSH 2 X 1 GY	7	68	17
380820225	ÖLFLEX® 100 I FR-LSH 2 X 1 UVAR GY	7	68	17
380820305	ÖLFLEX® 100 I FR-LSH 3 X 1 GY	7.4	80	26
380820315	ÖLFLEX® 100 I FR-LSH 3 G 1 GY	7.4	80	26
380820325	ÖLFLEX® 100 I FR-LSH 3 X 1 UVAR GY	7.4	80	26
380820335	ÖLFLEX® 100 I FR-LSH 3 G 1 UVAR GY	7.4	80	26
380820405	ÖLFLEX® 100 I FR-LSH 4 X 1 GY	8.5	104	35
380820415	ÖLFLEX® 100 I FR-LSH 4 G 1 GY	8.5	104	35
380820425	ÖLFLEX® 100 I FR-LSH 4 X 1 UVAR GY	8.5	104	35
380820435	ÖLFLEX® 100 I FR-LSH 4 G 1 UVAR GY	8.5	104	35
380830205	ÖLFLEX® 100 I FR-LSH 2 X 1.5 GY	8.1	91	25
380830225	ÖLFLEX® 100 I FR-LSH 2 X 1.5 UVAR GY	8.1	91	25
380830305	ÖLFLEX® 100 I FR-LSH 3 X 1.5 GY	8.6	110	38
380830315	ÖLFLEX® 100 I FR-LSH 3 G 1.5 GY	8.6	110	38
380830325	ÖLFLEX® 100 I FR-LSH 3 X 1.5 UVAR GY	8.6	110	38
380830335	ÖLFLEX® 100 I FR-LSH 3 G 1.5 UVAR GY	8.6	110	38

380830405	ÖLFLEX® 100 I FR-LSH 4 X 1.5 GY	9.8	141	50
380830415	ÖLFLEX® 100 I FR-LSH 4 G 1.5 GY	9.8	141	50
380830425	ÖLFLEX® 100 I FR-LSH 4 X 1.5 UVAR GY	9.8	141	50
380830435	ÖLFLEX® 100 I FR-LSH 4 G 1.5 UVAR GY	9.8	141	50
380830505	ÖLFLEX® 100 I FR-LSH 5 X 1.5 GY	10.7	166	63
380830525	ÖLFLEX® 100 I FR-LSH 5 X 1.5 UVAR GY	10.7	166	63
380830515	ÖLFLEX® 100 I FR-LSH 5 G 1.5 GY	10.7	166	63
380830535	ÖLFLEX® 100 I FR-LSH 5 G 1.5 UVAR GY	10.7	166	63
380840205	ÖLFLEX® 100 I FR-LSH 2 X 2.5 GY	9.2	126	42
380840225	ÖLFLEX® 100 I FR-LSH 2 X 2.5 UVAR GY	9.2	126	42
380840305	ÖLFLEX® 100 I FR-LSH 3 X 2.5 GY	10	159	63
380840315	ÖLFLEX® 100 I FR-LSH 3 G 2.5 GY	10	159	63
380840325	ÖLFLEX® 100 I FR-LSH 3 X 2.5 UVAR GY	10	159	63
380840335	ÖLFLEX® 100 I FR-LSH 3 G 2.5 UVAR GY	10	159	63
380840405	ÖLFLEX® 100 I FR-LSH 4 X 2.5 GY	11.3	203	84
380840415	ÖLFLEX® 100 I FR-LSH 4 G 2.5 GY	11.3	203	84
380840425	ÖLFLEX® 100 I FR-LSH 4 X 2.5 UVAR GY	11.3	203	84
380840435	ÖLFLEX® 100 I FR-LSH 4 G 2.5 UVAR GY	11.3	203	84
380840505	ÖLFLEX® 100 I FR-LSH 5 X 2.5 GY	12.4	241	106
380840525	ÖLFLEX® 100 I FR-LSH 5 X 2.5 UVAR GY	12.4	241	106
380840515	ÖLFLEX® 100 I FR-LSH 5 G 2.5 GY	12.4	241	106
380840535	ÖLFLEX® 100 I FR-LSH 5 G 2.5 UVAR GY	12.4	241	106
380850305	ÖLFLEX® 100 I FR-LSH 3 X 4 GY	12.1	243	105
380850315	ÖLFLEX® 100 I FR-LSH 3 G 4 GY	12.1	243	105
380850325	ÖLFLEX® 100 I FR-LSH 3 X 4 UVAR GY	12.1	243	105
380850335	ÖLFLEX® 100 I FR-LSH 3 G 4 UVAR GY	12.1	243	105
380850405	ÖLFLEX® 100 I FR-LSH 4 X 4 GY	13.5	302	140
380850415	ÖLFLEX® 100 I FR-LSH 4 G 4 GY	13.5	302	140
380850425	ÖLFLEX® 100 I FR-LSH 4 X 4 UVAR GY	13.5	302	140
380850435	ÖLFLEX® 100 I FR-LSH 4 G 4 UVAR GY	13.5	302	140
380850505	ÖLFLEX® 100 I FR-LSH 5 X 4 GY	14.8	358.6	175
380850525	ÖLFLEX® 100 I FR-LSH 5 X 4 UVAR GY	14.8	358.6	175
380850515	ÖLFLEX® 100 I FR-LSH 5 G 4 GY	14.8	358.6	175
380850535	ÖLFLEX® 100 I FR-LSH 5 G 4 UVAR GY	14.8	358.6	175
380860305	ÖLFLEX® 100 I FR-LSH 3 X 6 GY	13.1	311	158
380860315	ÖLFLEX® 100 I FR-LSH 3 G 6 GY	13.1	311	158
380860325	ÖLFLEX® 100 I FR-LSH 3 X 6 UVAR GY	13.1	311	158
380860335	ÖLFLEX® 100 I FR-LSH 3 G 6 UVAR GY	13.1	311	158
380860405	ÖLFLEX® 100 I FR-LSH 4 X 6 GY	14.5	390	211
380860415	ÖLFLEX® 100 I FR-LSH 4 G 6 GY	14.5	390	211

380860425	ÖLFLEX® 100 I FR-LSH 4 X 6 UVAR GY	14.5	390	211
380860435	ÖLFLEX® 100 I FR-LSH 4 G 6 UVAR GY	14.5	390	211
380860505	ÖLFLEX® 100 I FR-LSH 5 X 6 GY	16.2	474	263
380860525	ÖLFLEX® 100 I FR-LSH 5 X 6 UVAR GY	16.2	474	263
380860515	ÖLFLEX® 100 I FR-LSH 5 G 6 GY	16.2	474	263
380860535	ÖLFLEX® 100 I FR-LSH 5 G 6 UVAR GY	16.2	474	263
380861305	ÖLFLEX® 100 I FR-LSH 3 X 10 GY	16.9	648	263
380861315	ÖLFLEX® 100 I FR-LSH 3 G 10 GY	16.9	648	263
380861325	ÖLFLEX® 100 I FR-LSH 3 X 10 UVAR GY	16.9	648	263
380861335	ÖLFLEX® 100 I FR-LSH 3 G 10 UVAR GY	16.9	648	263
380861405	ÖLFLEX® 100 I FR-LSH 4 X 10 GY	18.8	762	350
380861415	ÖLFLEX® 100 I FR-LSH 4 G 10 GY	18.8	762	350
380861425	ÖLFLEX® 100 I FR-LSH 4 X 10 UVAR GY	18.8	762	350
380861435	ÖLFLEX® 100 I FR-LSH 4 G 10 UVAR GY	18.8	762	350
380861505	ÖLFLEX® 100 I FR-LSH 5 X 10 GY	21	789.2	438
380861525	ÖLFLEX® 100 I FR-LSH 5 X 10 UVAR GY	21	789.2	438
380861515	ÖLFLEX® 100 I FR-LSH 5 G 10 GY	21	789.2	438
380861535	ÖLFLEX® 100 I FR-LSH 5 G 10 UVAR GY	21	789.2	438
380862305	ÖLFLEX® 100 I FR-LSH 3 X 16 GY	21.6	1008.4	411
380862315	ÖLFLEX® 100 I FR-LSH 3 G 16 GY	21.6	1008.4	411
380862325	ÖLFLEX® 100 I FR-LSH 3 X 16 UVAR GY	21.6	1008.4	411
380862335	ÖLFLEX® 100 I FR-LSH 3 G 16 UVAR GY	21.6	1008.4	411
380862405	ÖLFLEX® 100 I FR-LSH 4 X 16 GY	19.2	762	548
380862415	ÖLFLEX® 100 I FR-LSH 4 G 16 GY	19.2	762	548
380862425	ÖLFLEX® 100 I FR-LSH 4 X 16 UVAR GY	19.2	762	548
380862435	ÖLFLEX® 100 I FR-LSH 4 G 16 UVAR GY	19.2	762	548
380862505	ÖLFLEX® 100 I FR-LSH 5 X 16 GY	21.6	997	686
380862525	ÖLFLEX® 100 I FR-LSH 5 X 16 UVAR GY	21.6	997	686
380862515	ÖLFLEX® 100 I FR-LSH 5 G 16 GY	21.6	997	686
380862535	ÖLFLEX® 100 I FR-LSH 5 G 16 UVAR GY	21.6	997	686
380863305	ÖLFLEX® 100 I FR-LSH 3 X 25 GY	24.5	1160.8	677
380863315	ÖLFLEX® 100 I FR-LSH 3 G 25 GY	24.5	1160.8	677
380863325	ÖLFLEX® 100 I FR-LSH 3 X 25 UVAR GY	24.5	1160.8	677
380863335	ÖLFLEX® 100 I FR-LSH 3 G 25 UVAR GY	24.5	1160.8	677
380863405	ÖLFLEX® 100 I FR-LSH 4 X 25 GY	27.2	1461	903
380863415	ÖLFLEX® 100 I FR-LSH 4 G 25 GY	27.2	1461	903
380863425	ÖLFLEX® 100 I FR-LSH 4 X 25 UVAR GY	27.2	1461	903
380863435	ÖLFLEX® 100 I FR-LSH 4 G 25 UVAR GY	27.2	1461	903
380863505	ÖLFLEX® 100 I FR-LSH 5 X 25 GY	30.5	1803.2	1129
380863525	ÖLFLEX® 100 I FR-LSH 5 X 25 UVAR GY	30.5	1803.2	1129

380863515	ÖLFLEX® 100 I FR-LSH 5 G 25 GY	30.5	1803.2	1129
380863535	ÖLFLEX® 100 I FR-LSH 5 G 25 UVAR GY	30.5	1803.2	1129
380864305	ÖLFLEX® 100 I FR-LSH 3 X 35 GY	26.7	1456.5	895
380864315	ÖLFLEX® 100 I FR-LSH 3 G 35 GY	26.7	1456.5	895
380864325	ÖLFLEX® 100 I FR-LSH 3 X 35 UVAR GY	26.7	1456.5	895
380864335	ÖLFLEX® 100 I FR-LSH 3 G 35 UVAR GY	26.7	1456.5	895
380864405	ÖLFLEX® 100 I FR-LSH 4 X 35 GY	29.9	1850	1194
380864415	ÖLFLEX® 100 I FR-LSH 4 G 35 GY	29.9	1850	1194
380864425	ÖLFLEX® 100 I FR-LSH 4 X 35 UVAR GY	29.9	1850	1194
380864435	ÖLFLEX® 100 I FR-LSH 4 G 35 UVAR GY	29.9	1850	1194
380864505	ÖLFLEX® 100 I FR-LSH 5 X 35 GY	33.5	2281	1492
380864525	ÖLFLEX® 100 I FR-LSH 5 X 35 UVAR GY	33.5	2281	1492
380864515	ÖLFLEX® 100 I FR-LSH 5 G 35 GY	33.5	2281	1492
380864535	ÖLFLEX® 100 I FR-LSH 5 G 35 UVAR GY	33.5	2281	1492
380865305	ÖLFLEX® 100 I FR-LSH 3 X 50 GY	31.5	2130	1272
380865315	ÖLFLEX® 100 I FR-LSH 3 G 50 GY	31.5	2130	1272
380865325	ÖLFLEX® 100 I FR-LSH 3 X 50 UVAR GY	31.5	2130	1272
380865335	ÖLFLEX® 100 I FR-LSH 3 G 50 UVAR GY	31.5	2130	1272
380865405	ÖLFLEX® 100 I FR-LSH 4 X 50 GY	35	2730	1696
380865415	ÖLFLEX® 100 I FR-LSH 4 G 50 GY	35	2730	1696
380865425	ÖLFLEX® 100 I FR-LSH 4 X 50 UVAR GY	35	2730	1696
380865435	ÖLFLEX® 100 I FR-LSH 4 G 50 UVAR GY	35	2730	1696