

**ÖLFLEX® 100 I CY FR-LSH**
**DS 380600205**

valid from: 2018-04-01

**Application**

ÖLFLEX® 100 I CY FR-LSH cables are Power and control cables copper shielded for fixed and flexible installation for industrial use with EMC 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 CY 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 signal interference. 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
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	screen braid of tinned copper wire
Outer sheath	PVC ST1 in accordance to IS 5831
Colour of sheath	PVC ST1 in accordance to IS 5831 - grey to RAL 7001. additional properties of UV resistance and Anti rodent properties on request
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.
<b>ÖLFLEX® 100 I CY FR-LSH</b>				
380600205	2 x 0.5 GY	8.1	35	109
380600225	2 x 0.5 UVAR GY	8.1	35	110
380600305	3 x 0.5 GY	8.5	40	119
380600325	3 x 0.5 UVAR GY	8.5	40	120
380600315	3G 0.5 GY	8.5	40	119
380600335	3G 0.5 UVAR GY	8.5	40	120
380600405	4 x 0.5 GY	9.2	49	144
380600425	4 x 0.5 UVAR GY	9.2	49	145
380600415	4G 0.5 GY	9.2	49	144
380600435	4G 0.5 UVAR GY	9.2	49	145
380600505	5 x 0.5 GY	10	55	161
380600525	5 x 0.5 UVAR GY	10	55	162
380600515	5G 0.5 GY	10	55	161
380600535	5G 0.5 UVAR GY	10	55	162
380610205	2 x 0.75 GY	8.6	40	121
380610225	2 x 0.75 UVAR GY	8.6	40	122
380610305	3 x 0.75 GY	9	50	138
380610325	3 x 0.75 UVAR GY	9	50	139
380610315	3G 0.75 GY	9	50	138
380610335	3G 0.75 UVAR GY	9	50	139
380610405	4 x 0.75 GY	9.8	58	162
380610425	4 x 0.75 UVAR GY	9.8	58	163
380610415	4G 0.75 GY	9.8	58	162
380610435	4G 0.75 UVAR GY	9.8	58	163
380610505	5 x 0.75 GY	10.6	66	182
380610525	5 x 0.75 UVAR GY	10.6	66	183
380610515	5G 0.75 GY	10.6	66	182
380610535	5G 0.75 UVAR GY	10.6	66	183
380620205	2 x 1 GY	8.9	47	134
380620225	2 x 1 UVAR GY	8.9	47	135
380620305	3 x 1 GY	9.4	57	155
380620325	3 x 1 UVAR GY	9.4	57	156
380620315	3G 1 GY	9.4	57	155
380620335	3G 1 UVAR GY	9.4	57	156
380620405	4 x 1 GY	10.2	67	178
380620425	4 x 1 UVAR GY	10.2	67	179
380620415	4G 1 GY	10.2	67	178
380620435	4G 1 UVAR GY	10.2	67	179
380620505	5 x 1 GY	11.1	79	209
380620525	5 x 1 UVAR GY	11.1	79	210
380620515	5G 1 GY	11.1	79	209
380620535	5G 1 UVAR GY	11.1	79	210
380630205	2 x 1.5 GY	9.6	56	160
380630225	2 x 1.5 UVAR GY	9.6	56	161
380630305	3 x 1.5 GY	10.2	70	180
380630325	3 x 1.5 UVAR GY	10.2	70	181
380630315	3G 1.5 GY	10.2	70	180
380630335	3G 1.5 UVAR GY	10.2	70	181
380630405	4 x 1.5 GY	11.1	86	218
380630425	4 x 1.5 UVAR GY	11.1	86	219
380630415	4G 1.5 GY	11.1	86	218
380630435	4G 1.5 UVAR GY	11.1	86	219
380630505	5 x 1.5 GY	12.1	103	251
380630525	5 x 1.5 UVAR GY	12.1	103	252
380630515	5G 1.5 GY	12.1	103	251
380630535	5G 1.5 UVAR GY	12.1	103	252
380640205	2 x 2.5 GY	11.3	78	214
380640225	2 x 2.5 UVAR GY	11.3	78	215
380640305	3 x 2.5 GY	12	100	246
380640325	3 x 2.5 UVAR GY	12	100	247
380640315	3G 2.5 GY	12	100	246
380640335	3G 2.5 UVAR GY	12	100	247
380640405	4 x 2.5 GY	13.1	126	305
380640425	4 x 2.5 UVAR GY	13.1	126	306
380640415	4G 2.5 GY	13.1	126	305
380640435	4G 2.5 UVAR GY	13.1	126	306

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380640505	5 x 2.5 GY	14.6	168	380
380640525	5 x 2.5 UVAR GY	14.6	168	381
380640515	5G 2.5 GY	14.6	168	380
380640535	5G 2.5 UVAR GY	14.6	168	381
380650305	3 x 4 GY	14.1	168	382
380650325	3 x 4 UVAR GY	14.1	168	382
380650315	3G 4 GY	14.1	168	382
380650335	3G 4 UVAR GY	14.1	168	383
380650405	4 x 4 GY	15.4	211	452
380650425	4 x 4 UVAR GY	15.4	211	453
380650415	4G 4 GY	15.4	211	452
380650435	4G 4 UVAR GY	15.4	211	453
380650505	5 x 4 GY	16.9	249	533
380650525	5 x 4 UVAR GY	16.9	249	534
380650515	5G 4 GY	16.9	249	533
380650535	5G 4 UVAR GY	16.9	249	534
380660305	3 x 6 GY	15.6	231	489
380660325	3 x 6 UVAR GY	15.6	231	490
380660315	3G 6 GY	15.6	231	489
380660335	3G 6 UVAR GY	15.6	231	490
380660405	4 x 6 GY	17.2	287	579
380660425	4 x 6 UVAR GY	17.2	287	580
380660415	4G 6 GY	17.2	287	579
380660435	4G 6 UVAR GY	17.2	287	580
380660505	5 x 6 GY	18.9	349	693
380660525	5 x 6 UVAR GY	18.9	349	694
380660515	5G 6 GY	18.9	349	693
380660535	5G 6 UVAR GY	18.9	349	694
380661205	2 x 10 GY	18.1	257	603
380661225	2 x 10 UVAR GY	18.1	257	604
380661305	3 x 10 GY	19.5	347	728
380661325	3 x 10 UVAR GY	19.5	347	729
380661315	3G 10 GY	19.5	347	728
380661335	3G 10 UVAR GY	19.5	347	729
380661405	4 x 10 GY	21.5	468	928
380661425	4 x 10 UVAR GY	21.5	468	929
380661415	4G 10 GY	21.5	468	928
380661435	4G 10 UVAR GY	21.5	468	929
380661505	5 x 10 GY	23.8	571	1110
380661525	5 x 10 UVAR GY	23.8	571	1111
380661515	5G 10 GY	23.8	571	1110
380661535	5G 10 UVAR GY	23.8	571	1111
380662305	3 x 16 GY	22.1	540	1022
380662325	3 x 16 UVAR GY	22.1	540	1023
380662315	3G 16 GY	22.1	540	1022
380662335	3G 16 UVAR GY	22.1	540	1023
380662405	4 x 16 GY	24.5	688	1265
380662425	4 x 16 UVAR GY	24.5	688	1266
380662415	4G 16 GY	24.5	688	1265
380662435	4G 16 UVAR GY	24.5	688	1266
380662505	5 x 16 GY	27.1	832	1523
380662525	5 x 16 UVAR GY	27.1	832	1524
380662515	5G 16 GY	27.1	832	1523
380662535	5G 16 UVAR GY	27.1	832	1524
380663305	3 x 25 GY	27.1	824	1533
380663325	3 x 25 UVAR GY	27.1	824	1534
380663315	3G 25 GY	27.1	824	1533
380663335	3G 25 UVAR GY	27.1	824	1534
380663405	4 x 25 GY	30	1077	1937
380663425	4 x 25 UVAR GY	30	1077	1938
380663415	4G 25 GY	30	1077	1937
380663435	4G 25 UVAR GY	30	1077	1938
380663505	5 x 25 GY	33.3	1321	2343
380663525	5 x 25 UVAR GY	33.3	1321	2344
380663515	5G 25 GY	33.3	1321	2343
380663535	5G 25 UVAR GY	33.3	1321	2344
380664305	3 x 35 GY	30.5	1070	1949

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380664325	3 x 35 UVAR GY	30.5	1070	1950
380664315	3G 35 GY	30.5	1070	1949
380664335	3G 35 UVAR GY	30.5	1070	1950
380664405	4 x 35 GY	33.8	1382	2422
380664425	4 x 35 UVAR GY	33.8	1382	2423
380664415	4G 35 GY	33.8	1382	2422
380664435	4G 35 UVAR GY	33.8	1382	2423
380664505	5 x 35 GY	37.6	1709	2954
380664525	5 x 35 UVAR GY	37.6	1709	2955
380664515	5G 35 GY	37.6	1709	2954
380664535	5G 35 UVAR GY	37.6	1709	2955
380665305	3 x 50 GY	35.4	1478	2688
380665325	3 x 50 UVAR GY	35.4	1478	2689
380665315	3G 50 GY	35.4	1478	2688
380665335	3G 50 UVAR GY	35.4	1478	2689
380665405	4 x 50 GY	39.4	1917	3341
380665425	4 x 50 UVAR GY	39.4	1917	3342
380665415	4G 50 GY	39.4	1917	3341
380665435	4G 50 UVAR GY	39.4	1917	3342