

ÖLFLEX® POWER LV PVC FR**DS 382003146**

valid from: 2018-03-31

Application

ÖLFLEX® POWER LV PVC FR is suitable for main power distribution and lighting circuits in residential and commercial buildings. Suitable for direct burial application. UV resistant outer sheath for outdoor application and anti-rodent properties is provided if resistance is required against rodents.

Design

Conductor	annealed bare copper Class II - in accordance to IS 8130
Standard	IS 1554 (Part-I)
Insulation	PVC insulation - Type A in accordance to IS 5831
Inner Sheath	PVC - Type ST1 with flame retardant properties as per IS 5831
Outer Sheath	PVC - Type ST1 with flame retardant properties as per IS 5831

Electrical properties

Nominal voltage	1100 V
Test voltage	3 KV for 5 minutes

Mechanical properties

Min. bending radius	fixed installation:	10 x cable OD
Temperature range	fixed installation:	-5 °C up to +70 °C max. conductor temperature

Flame and other tests

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

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DS 382003146

valid from: 2018-03-31

Article number	Number of cores and mm ² per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.
ÖLFLEX® POWER LV PVC FR - RIYY1BK				
382003146	2x1.5	11.4	26.6	178.4
382003147	3x1.5	11.9	40.0	202.8
382003148	4x1.5	12.8	53.3	239.9
382003149	5x1.5	13.7	66.6	279.1
382003150	6x1.5	14.6	79.9	280.1
382003151	7x1.5	14.6	93.2	302.6
382003152	8x1.5	16.1	106.6	343.0
382003153	9x1.5	17.2	119.9	378.7
382003154	10x1.5	17.8	133.2	408.4
382003155	11x1.5	17.8	146.5	430.9
382003156	12x1.5	18.3	159.8	459.4
382003157	13x1.5	19.1	173.2	491.5
382003158	14x1.5	19.1	186.5	514.0
382003159	15x1.5	20.5	199.8	568.0
382003160	16x1.5	20.5	213.1	590.5
382003161	17x1.5	21.4	226.4	624.6
382003162	18x1.5	21.4	239.7	647.1
382003163	19x1.5	21.4	253.1	669.6
382003164	20x1.5	22.5	266.4	706.4
382003165	21x1.5	22.5	279.7	728.9
382003166	22x1.5	23.6	293.0	765.6
382003167	23x1.5	23.6	306.3	788.1
382003168	24x1.5	24.6	319.7	823.6
382003169	25x1.5	24.6	333.0	846.1
382003170	26x1.5	24.6	346.3	868.6
382003171	27x1.5	25.1	359.6	897.6
382003172	28x1.5	25.9	372.9	930.4
382003173	29x1.5	25.9	386.3	952.9
382003174	30x1.5	25.9	399.6	975.4
382003175	31x1.5	26.9	412.9	1,010.9
382003176	32x1.5	26.9	426.2	1,033.4
382003177	33x1.5	26.9	439.5	1,055.9
382003178	34x1.5	27.8	452.9	1,090.0
382003179	35x1.5	27.8	466.2	1,112.5
382003180	36x1.5	27.8	479.5	1,135.1
382003181	37x1.5	27.8	492.8	1,157.6
382003182	38x1.5	28.9	506.1	1,194.3
382003183	39x1.5	28.9	519.5	1,216.8
382003184	40x1.5	28.9	532.8	1,239.3
382003185	41x1.5	30.4	546.1	1,304.9
382003186	42x1.5	30.4	559.4	1,327.4
382003187	43x1.5	30.4	572.7	1,350.0
382003188	44x1.5	31.4	586.1	1,386.4
382003189	45x1.5	31.4	599.4	1,408.9
382003190	46x1.5	31.4	612.7	1,431.4
382003191	47x1.5	31.4	626.0	1,453.9
382003192	48x1.5	31.9	639.3	1,483.3
382003193	49x1.5	31.9	652.6	1,505.8
382003194	50x1.5	31.9	666.0	1,528.3
382003195	51x1.5	31.9	679.3	1,550.8
382003196	52x1.5	32.7	692.6	1,584.5
382003197	53x1.5	32.7	705.9	1,607.0
382003198	54x1.5	32.7	719.2	1,629.5
382003199	55x1.5	32.7	732.6	1,652.0
382003200	56x1.5	32.7	745.9	1,674.5
382003201	57x1.5	32.7	759.2	1,697.0
382003202	58x1.5	32.7	772.5	1,719.5
382003203	59x1.5	32.7	785.8	1,742.0
382003204	60x1.5	32.7	799.2	1,764.5
382003205	61x1.5	34.6	812.5	1,813.4
382003206	2x2.5	12.6	43.5	226.7
382003207	3x2.5	13.2	65.2	262.4
382003208	4x2.5	14.2	87.0	312.5
382003209	5x2.5	15.3	108.7	368.7
382003210	6x2.5	16.4	130.5	372.0
382003211	7x2.5	16.4	152.2	406.3
382003212	8x2.5	18.1	174.0	460.9
382003213	9x2.5	19.9	195.7	530.7
382003214	10x2.5	20.6	217.5	574.0
382003215	11x2.5	20.6	239.2	608.3
382003216	12x2.5	21.2	261.0	650.3
382003217	13x2.5	22.2	282.7	697.5
382003218	14x2.5	22.2	304.5	731.7
382003219	15x2.5	23.3	326.2	780.2

Article number	Number of cores and mm ² per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.
382003220	16x2.5	23.3	348.0	814.4
382003221	17x2.5	24.4	369.7	862.9
382003222	18x2.5	24.4	391.5	897.1
382003223	19x2.5	24.4	413.2	931.4
382003224	20x2.5	25.7	435.0	982.4
382003225	21x2.5	25.7	456.7	1,016.7
382003226	22x2.5	27.0	478.5	1,067.7
382003227	23x2.5	27.0	500.2	1,102.0
382003228	24x2.5	28.2	522.0	1,151.7
382003229	25x2.5	28.2	543.7	1,186.0
382003230	26x2.5	28.2	565.5	1,220.2
382003231	27x2.5	28.8	587.2	1,262.2
382003232	28x2.5	29.8	609.0	1,309.4
382003233	29x2.5	29.8	630.7	1,343.6
382003234	30x2.5	29.8	652.5	1,377.9
382003235	31x2.5	31.3	674.2	1,456.1
382003236	32x2.5	31.3	696.0	1,490.3
382003237	33x2.5	31.3	717.7	1,524.5
382003238	34x2.5	32.4	739.5	1,574.1
382003239	35x2.5	32.4	761.2	1,608.3
382003240	36x2.5	32.4	783.0	1,642.5
382003241	37x2.5	32.4	804.7	1,676.8
382003242	38x2.5	33.7	826.5	1,729.1
382003243	39x2.5	33.7	848.2	1,763.3
382003244	40x2.5	33.7	870.0	1,797.6
382003245	41x2.5	35.0	891.7	1,849.9
382003246	42x2.5	35.0	913.5	1,884.1
382003247	43x2.5	35.0	935.2	1,918.3
382003248	44x2.5	36.2	957.0	1,969.3
382003249	45x2.5	36.2	978.7	2,003.5
382003250	46x2.5	36.2	1000.5	2,037.7
382003251	47x2.5	36.2	1022.2	2,072.0
382003252	48x2.5	36.8	1044.0	2,114.5
382003253	49x2.5	36.8	1065.7	2,148.8
382003254	50x2.5	36.8	1087.5	2,183.0
382003255	51x2.5	36.8	1109.2	2,217.2
382003256	52x2.5	37.8	1131.0	2,265.4
382003257	53x2.5	37.8	1152.7	2,299.6
382003258	54x2.5	37.8	1174.5	2,333.8
382003259	55x2.5	37.8	1196.2	2,368.1
382003260	56x2.5	37.8	1218.0	2,402.3
382003261	57x2.5	37.8	1239.7	2,436.5
382003262	58x2.5	37.8	1261.5	2,470.8
382003263	59x2.5	37.8	1283.2	2,505.0
382003264	60x2.5	37.8	1305.0	2,539.2
382003265	61x2.5	40.0	1326.7	2,604.1
382003285	2x4	14.0	69.2	292.1
382003286	2x6	15.2	103.6	360.8
382003287	2x10	17.0	174.3	486.2
382003288	2x16	19.2	277.4	661.5
382003289	2x25	23.0	438.8	980.2
382003290	2x35	25.4	608.9	1,249.8
382003291	2x50	25.3	820.2	1,242.6
382003292	2x70	27.0	1184.4	1,655.1
382003293	2x95	31.2	1644.7	2,248.5
382003294	2x120	33.2	2074.6	2,728.7
382003295	2x150	34.9	2559.8	3,296.3
382003296	2x185	38.4	3203.0	4,060.7
382003297	2x240	43.4	4209.8	5,265.7
382003298	2x300	47.3	5281.5	6,537.9
382003299	2x400	52.2	6753.6	8,254.5
382003300	3x4	14.7	103.8	343.5
382003301	3x6	16.0	155.4	431.2
382003302	3x10	18.0	261.5	596.5
382003303	3x16	20.8	416.1	846.0
382003304	3x25	24.4	658.3	1,230.5
382003305	3x35	27.0	913.3	1,586.0
382003306	3x50	28.0	1230.3	1,754.5
382003307	3x70	31.2	1776.6	2,406.1
382003308	3x95	35.2	2467.0	3,234.0
382003309	3x120	37.9	3112.0	3,950.2
382003310	3x150	41.8	3839.7	4,854.5
382003311	3x185	44.8	4804.5	5,973.2
382003312	3x240	51.7	6314.7	7,811.7
382003313	3x300	57.8	7922.3	9,725.1

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ÖLFLEX® POWER LV PVC FR - RIYY1BK				
382003314	3x400	63.9	10130.4	12,307.7
382003315	3.5x25	25.3	797.0	1,244.1
382003316	3.5x35	27.3	1052.0	1,545.1
382003317	3.5x50	30.4	1449.7	2,071.8
382003318	3.5x70	33.2	2081.0	2,788.3
382003319	3.5x95	38.2	2877.1	3,752.6
382003320	3.5x120	41.1	3704.2	4,700.7
382003321	3.5x150	44.8	4431.9	5,571.5
382003322	3.5x185	49.8	5626.9	7,018.8
382003323	3.5x240	57.1	7352.0	9,106.1
382003324	3.5x300	62.2	9202.2	11,284.0
382003325	3.5x400	70.0	11731.9	14,270.2
382003326	4x4	15.9	138.4	415.0
382003327	4x6	17.4	207.2	528.0
382003328	4x10	19.9	348.7	751.2
382003329	4x16	22.6	554.8	1,047.8
382003330	4x25	26.7	877.7	1,542.3
382003331	4x35	29.6	1217.7	1,998.3
382003332	4x50	32.2	1640.4	2,311.0
382003333	4x70	36.2	2368.8	3,147.5
382003334	4x95	39.9	3289.3	4,229.1
382003335	4x120	43.8	4149.3	5,224.4
382003336	4x150	48.2	5119.7	6,417.6
382003337	4x185	54.0	6406.0	7,986.4
382003338	4x240	60.8	8419.6	10,351.8
382003339	4x300	67.3	10563.0	12,959.9
ÖLFLEX® POWER LV PVC FR - RIYY1BK				
382003266	1x4	8.2	34.6	107.5
382003267	1x6	8.8	51.8	132.9
382003268	1x10	9.7	87.2	180.5
382003269	1x16	10.8	138.7	247.1
382003270	1x25	12.5	219.4	357.3
382003271	1x35	13.7	304.4	459.8
382003272	1x50	15.2	410.1	595.9
382003273	1x70	17.2	592.2	809.1
382003274	1x95	19.9	822.3	1,106.0
382003275	1x120	21.4	1037.3	1,347.2
382003276	1x150	23.3	1279.9	1,638.1
382003277	1x185	25.6	1601.5	2,019.0
382003278	1x240	28.5	2104.9	2,597.9
382003279	1x300	31.8	2640.8	3,244.6
382003280	1x400	35.1	3376.8	4,078.5
382003281	1x500	39.5	4336.3	5,196.4
382003282	1x630	44.3	5608.1	6,684.0
382003283	1x800	48.8	7181.4	8,418.5
382003284	1x1000	53.6	9017.6	10,433.1
ÖLFLEX® POWER LV PVC FR - RIYYUVAR1BK				
382003340	2x1.5	11.4	26.6	178.4
382003341	3x1.5	11.9	40.0	202.8
382003342	4x1.5	12.8	53.3	239.9
382003343	5x1.5	13.7	66.6	279.1
382003344	6x1.5	14.6	79.9	280.1
382003345	7x1.5	14.6	93.2	302.6
382003346	8x1.5	16.1	106.6	343.0
382003347	9x1.5	17.2	119.9	378.7
382003348	10x1.5	17.8	133.2	408.4
382003349	11x1.5	17.8	146.5	430.9
382003350	12x1.5	18.3	159.8	459.4
382003351	13x1.5	19.1	173.2	491.5
382003352	14x1.5	19.1	186.5	514.0
382003353	15x1.5	20.5	199.8	568.0
382003354	16x1.5	20.5	213.1	590.5
382003355	17x1.5	21.4	226.4	624.6
382003356	18x1.5	21.4	239.7	647.1
382003357	19x1.5	21.4	253.1	669.6
382003358	20x1.5	22.5	266.4	706.4
382003359	21x1.5	22.5	279.7	728.9
382003360	22x1.5	23.6	293.0	765.6
382003361	23x1.5	23.6	306.3	788.1
382003362	24x1.5	24.6	319.7	823.6
382003363	25x1.5	24.6	333.0	846.1
382003364	26x1.5	24.6	346.3	868.6
382003365	27x1.5	25.1	359.6	897.6

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382003366	28x1.5	25.9	372.9	930.4
382003367	29x1.5	25.9	386.3	952.9
382003368	30x1.5	25.9	399.6	975.4
382003369	31x1.5	26.9	412.9	1,010.9
382003370	32x1.5	26.9	426.2	1,033.4
382003371	33x1.5	26.9	439.5	1,055.9
382003372	34x1.5	27.8	452.9	1,090.0
382003373	35x1.5	27.8	466.2	1,112.5
382003374	36x1.5	27.8	479.5	1,135.1
382003375	37x1.5	27.8	492.8	1,157.6
382003376	38x1.5	28.9	506.1	1,194.3
382003377	39x1.5	28.9	519.5	1,216.8
382003378	40x1.5	28.9	532.8	1,239.3
382003379	41x1.5	30.4	546.1	1,304.9
382003380	42x1.5	30.4	559.4	1,327.4
382003381	43x1.5	30.4	572.7	1,350.0
382003382	44x1.5	31.4	586.1	1,386.4
382003383	45x1.5	31.4	599.4	1,408.9
382003384	46x1.5	31.4	612.7	1,431.4
382003385	47x1.5	31.4	626.0	1,453.9
382003386	48x1.5	31.9	639.3	1,483.3
382003387	49x1.5	31.9	652.6	1,505.8
382003388	50x1.5	31.9	666.0	1,528.3
382003389	51x1.5	31.9	679.3	1,550.8
382003390	52x1.5	32.7	692.6	1,584.5
382003391	53x1.5	32.7	705.9	1,607.0
382003392	54x1.5	32.7	719.2	1,629.5
382003393	55x1.5	32.7	732.6	1,652.0
382003394	56x1.5	32.7	745.9	1,674.5
382003395	57x1.5	32.7	759.2	1,697.0
382003396	58x1.5	32.7	772.5	1,719.5
382003397	59x1.5	32.7	785.8	1,742.0
382003398	60x1.5	32.7	799.2	1,764.5
382003399	61x1.5	34.6	812.5	1,813.4
382003400	2x2.5	12.6	43.5	226.7
382003401	3x2.5	13.2	65.2	262.4
382003402	4x2.5	14.2	87.0	312.5
382003403	5x2.5	15.3	108.7	368.7
382003404	6x2.5	16.4	130.5	372.0
382003405	7x2.5	16.4	152.2	406.3
382003406	8x2.5	18.1	174.0	460.9
382003407	9x2.5	19.9	195.7	530.7
382003408	10x2.5	20.6	217.5	574.0
382003409	11x2.5	20.6	239.2	608.3
382003410	12x2.5	21.2	261.0	650.3
382003411	13x2.5	22.2	282.7	697.5
382003412	14x2.5	22.2	304.5	731.7
382003413	15x2.5	23.3	326.2	780.2
382003414	16x2.5	23.3	348.0	814.4
382003415	17x2.5	24.4	369.7	862.9
382003416	18x2.5	24.4	391.5	897.1
382003417	19x2.5	24.4	413.2	931.4
382003418	20x2.5	25.7	435.0	982.4
382003419	21x2.5	25.7	456.7	1,016.7
382003420	22x2.5	27.0	478.5	1,067.7
382003421	23x2.5	27.0	500.2	1,102.0
382003422	24x2.5	28.2	522.0	1,151.7
382003423	25x2.5	28.2	543.7	1,186.0
382003424	26x2.5	28.2	565.5	1,220.2
382003425	27x2.5	28.8	587.2	1,262.2
382003426	28x2.5	29.8	609.0	1,309.4
382003427	29x2.5	29.8	630.7	1,343.6
382003428	30x2.5	29.8	652.5	1,377.9
382003429	31x2.5	31.3	674.2	1,456.1
382003430	32x2.5	31.3	696.0	1,490.3
382003431	33x2.5	31.3	717.7	1,524.5
382003432	34x2.5	32.4	739.5	1,574.1
382003433	35x2.5	32.4	761.2	1,608.3
382003434	36x2.5	32.4	783.0	1,642.5
382003435	37x2.5	32.4	804.7	1,676.8
382003436	38x2.5	33.7	826.5	1,729.1
382003437	39x2.5	33.7	848.2	1,763.3
382003438	40x2.5	33.7	870.0	1,797.6
382003439	41x2.5	35.0	891.7	1,849.9
382003440	42x2.5	35.0	913.5	1,884.1

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ÖLFLEX® POWER LV PVC FR - RIYYUVAR1BK				
382003441	43x2.5	35.0	935.2	1,918.3
382003442	44x2.5	36.2	957.0	1,969.3
382003443	45x2.5	36.2	978.7	2,003.5
382003444	46x2.5	36.2	1000.5	2,037.7
382003445	47x2.5	36.2	1022.2	2,072.0
382003446	48x2.5	36.8	1044.0	2,114.5
382003447	49x2.5	36.8	1065.7	2,148.8
382003448	50x2.5	36.8	1087.5	2,183.0
382003449	51x2.5	36.8	1109.2	2,217.2
382003450	52x2.5	37.8	1131.0	2,265.4
382003451	53x2.5	37.8	1152.7	2,299.6
382003452	54x2.5	37.8	1174.5	2,333.8
382003453	55x2.5	37.8	1196.2	2,368.1
382003454	56x2.5	37.8	1218.0	2,402.3
382003455	57x2.5	37.8	1239.7	2,436.5
382003456	58x2.5	37.8	1261.5	2,470.8
382003457	59x2.5	37.8	1283.2	2,505.0
382003458	60x2.5	37.8	1305.0	2,539.2
382003459	61x2.5	40.0	1326.7	2,604.1
382003479	2x4	14.0	69.2	292.1
382003480	2x6	15.2	103.6	360.8
382003481	2x10	17.0	174.3	486.2
382003482	2x16	19.2	277.4	661.5
382003483	2x25	23.0	438.8	980.2
382003484	2x35	25.4	608.9	1,249.8
382003485	2x50	25.3	820.2	1,242.6
382003486	2x70	27.0	1184.4	1,655.1
382003487	2x95	31.2	1644.7	2,248.5
382003488	2x120	33.2	2074.6	2,728.7
382003489	2x150	34.9	2559.8	3,296.3
382003490	2x185	38.4	3203.0	4,060.7
382003491	2x240	43.4	4209.8	5,265.7
382003492	2x300	47.3	5281.5	6,537.9
382003493	2x400	52.2	6753.6	8,254.5
382003494	3x4	14.7	103.8	343.5
382003495	3x6	16.0	155.4	431.2
382003496	3x10	18.0	261.5	596.5
382003497	3x16	20.8	416.1	846.0
382003498	3x25	24.4	658.3	1,230.5
382003499	3x35	27.0	913.3	1,586.0
382003500	3x50	28.0	1230.3	1,754.5
382003501	3x70	31.2	1776.6	2,406.1
382003502	3x95	35.2	2467.0	3,234.0
382003503	3x120	37.9	3112.0	3,950.2
382003504	3x150	41.8	3839.7	4,854.5
382003505	3x185	44.8	4804.5	5,973.2
382003506	3x240	51.7	6314.7	7,811.7
382003507	3x300	57.8	7922.3	9,725.1
382003508	3x400	63.9	10130.4	12,307.7
382003509	3.5x25	25.3	797.0	1,244.1
382003510	3.5x35	27.3	1052.0	1,545.1
382003511	3.5x50	30.4	1449.7	2,071.8
382003512	3.5x70	33.2	2081.0	2,788.3
382003513	3.5x95	38.2	2877.1	3,752.6
382003514	3.5x120	41.1	3704.2	4,700.7
382003515	3.5x150	44.8	4431.9	5,571.5
382003516	3.5x185	49.8	5626.9	7,018.8
382003517	3.5x240	57.1	7352.0	9,106.1
382003518	3.5x300	62.2	9202.2	11,284.0
382003519	3.5x400	70.0	11731.9	14,270.2
382003520	4x4	15.9	138.4	415.0
382003521	4x6	17.4	207.2	528.0
382003522	4x10	19.9	348.7	751.2
382003523	4x16	22.6	554.8	1,047.8
382003524	4x25	26.7	877.7	1,542.3
382003525	4x35	29.6	1217.7	1,998.3
382003526	4x50	32.2	1640.4	2,311.0
382003527	4x70	36.2	2368.8	3,147.5
382003528	4x95	39.9	3289.3	4,229.1
382003529	4x120	43.8	4149.3	5,224.4
382003530	4x150	48.2	5119.7	6,417.6
382003531	4x185	54.0	6406.0	7,986.4
382003532	4x240	60.8	8419.6	10,351.8
382003533	4x300	67.3	10563.0	12,959.9

Article number	Number of cores and mm ² per conductor	Nominal outer diameter (mm)	Copper weight (kg/km) Approx.	Weight (kg/km) Approx.
ÖLFLEX® POWER LV PVC FR - RIYYUVAR1BK				
382003460	1x4	8.2	34.6	107.5
382003461	1x6	8.8	51.8	132.9
382003462	1x10	9.7	87.2	180.5
382003463	1x16	10.8	138.7	247.1
382003464	1x25	12.5	219.4	357.3
382003465	1x35	13.7	304.4	459.8
382003466	1x50	15.2	410.1	595.9
382003467	1x70	17.2	592.2	809.1
382003468	1x95	19.9	822.3	1,106.0
382003469	1x120	21.4	1037.3	1,347.2
382003470	1x150	23.3	1279.9	1,638.1
382003471	1x185	25.6	1601.5	2,019.0
382003472	1x240	28.5	2104.9	2,597.9
382003473	1x300	31.8	2640.8	3,244.6
382003474	1x400	35.1	3376.8	4,078.5
382003475	1x500	39.5	4336.3	5,196.4
382003476	1x630	44.3	5608.1	6,684.0
382003477	1x800	48.8	7181.4	8,418.5
382003478	1x1000	53.6	9017.6	10,433.1