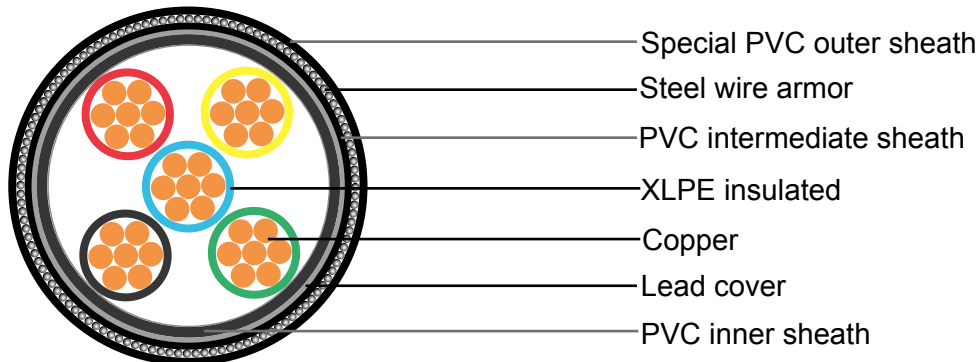




Cables for Oil Industry

600V/1000V XLPE Insulated Steel Wire Armored Cable to IEC 60502-1 with Lead Cover



XLPE Insulated Steel Wire Armored Cable to IEC 60502-1 with Lead Cover

Applications

These cables are used for electricity supply in low voltage installation system. They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants, where require hydrocarbon and mechanical protections. The lead sheath brings an enhanced resistance to aliphatic and aromatic hydrocarbon.

Construction

Conductor: Solid or stranded copper

Insulation: XLPE

Core identification

1 Core: Red or Black

2 Cores: Red, Black

3 Cores: Red, Yellow, Blue

4 Cores: Red, Yellow, Blue, Black

5 Cores: Red, Yellow, Blue, Black, Green

Above 5 cores: Black core printed with white numbers

Inner sheath: PVC

Lead cover

Intermediate sheath: PVC

Armor: Galvanized steel wires or aluminium wires for 1 core cable

Sheath: Special PVC. Color: black

Properties

Rated voltage: 600V/1000V

Fire retardance: IEC 60332-3-22

Operating temperature: -20~60°C

Max. conductor operating temperature: 90°C

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance



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No. of Cores	Conductor		Diameter over Insulation	Diameter over Inner Sheath	Diameter over Lead Sheath	Diameter over Intermediate Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight
	Cross-section (mm ²)	Type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)
1	25	Stranded, Class 2	7.9	9.9	12.3	14.7	18.5	21.4	23.7	1192
1	35	Stranded, Class 2	8.9	10.9	13.3	15.7	19.5	22.41	24.7	1358
1	50	Stranded, Class 2	10.2	12.2	14.6	17.0	20.8	23.67	26.1	1567
1	70	Stranded, Class 2	12.0	14.0	16.4	18.8	22.6	25.41	28.0	1888
1	95	Stranded, Class 2	13.55	15.6	18.0	20.4	24.2	26.97	29.8	2228
1	120	Stranded, Class 2	15.26	17.3	19.9	22.3	26.1	29.0	32.0	2663
1	150	Stranded, Class 2	16.97	19.0	21.6	24.0	27.8	30.65	33.8	3050
1	185	Stranded, Class 2	19.05	21.0	23.8	26.2	30.1	33.08	36.5	3665
1	240	Stranded, Class 2	21.6	23.6	26.6	29.0	32.8	35.89	39.6	4506
1	300	Stranded, Class 2	24.2	26.2	29.2	31.6	35.4	38.61	42.6	5314
1	400	Stranded, Class 2	27.7	30.1	33.3	35.7	39.5	42.78	47.2	6588
1	500	Stranded, Class 2	31.4	33.8	37.2	39.8	44.8	48.11	53.1	8281
1	630	Stranded, Class 2	36.2	38.6	42.2	45.0	50.0	53.54	59.1	10316
2	1.5	Solid, Class 1	2.79	7.9	10.3	12.7	15.2	18.24	20.1	1005
2	1.5	Stranded, Class 2	2.9	8.2	10.6	12.9	15.4	18.43	20.3	1023
2	2.5	Solid, Class 1	3.15	8.6	11.0	13.4	15.9	18.92	20.9	1095
2	2.5	Stranded, Class 2	3.31	9.1	11.5	13.7	16.2	19.21	21.2	1120
2	4	Solid, Class 1	3.61	9.5	11.9	14.3	16.8	19.79	21.8	1210
2	4	Stranded, Class 2	3.83	10.2	12.6	14.8	17.3	20.27	22.4	1255
2	6	Stranded, Class 2	4.35	11.0	13.4	15.8	18.3	21.24	23.4	1399
2	10	Stranded, Class 2	5.25	12.8	15.2	17.6	20.8	23.67	26.1	1790
2	16	Stranded, Class 2	6.25	14.8	17.2	19.6	22.8	25.61	28.2	2109
2	25	Stranded, Class 2	7.9	18.1	20.5	22.9	26.1	28.81	31.8	2680
2	35	Stranded, Class 2	8.9	20.1	22.5	24.9	28.1	30.94	34.1	3115
2	50	Stranded, Class 2	10.2	22.8	25.4	27.8	31.8	34.73	38.3	4037



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2	70	Stranded, Class 2	12.0	26.4	29.2	31.6	35.6	38.8	42.8	5074
2	95	Stranded, Class 2	13.55	29.9	32.9	35.3	39.3	42.58	47.0	6206
2	120	Stranded, Class 2	15.26	33.3	36.5	39.1	44.1	47.43	52.3	7796
2	150	Stranded, Class 2	16.97	36.7	40.1	42.7	47.7	51.31	56.6	9145
2	185	Stranded, Class 2	19.05	41.3	44.9	47.7	52.7	56.36	62.2	10957
2	240	Stranded, Class 2	21.6	46.4	50.4	53.4	58.4	62.27	68.7	13526
2	300	Stranded, Class 2	24.2	52.0	56.2	59.4	64.4	68.48	75.5	16251
3	1.5	Solid, Class 1	2.79	8.3	10.7	13.1	15.6	18.62	20.5	1056
3	1.5	Stranded, Class 2	2.9	8.7	11.1	13.4	15.9	18.92	20.9	1085
3	2.5	Solid, Class 1	3.15	9.1	11.5	13.9	16.4	19.4	21.4	1157
3	2.5	Stranded, Class 2	3.31	9.6	12.0	14.2	16.8	19.79	21.8	1194
3	4	Solid, Class 1	3.61	10.1	12.5	14.9	17.4	20.37	22.5	1289
3	4	Stranded, Class 2	3.83	10.8	13.2	15.4	17.9	20.86	23.0	1345
3	6	Stranded, Class 2	4.35	11.7	14.1	16.5	19.0	21.92	24.2	1501
3	10	Stranded, Class 2	5.25	13.6	16.0	18.4	21.6	24.44	27.0	1938
3	16	Stranded, Class 2	6.25	15.8	18.2	20.6	23.8	26.58	29.3	2331
3	25	Stranded, Class 2	7.9	19.4	21.8	24.2	27.4	30.26	33.4	3006
3	35	Stranded, Class 2	8.9	21.5	24.1	26.5	29.7	32.69	36.1	3634
3	50	Stranded, Class 2	10.2	24.4	27.2	29.6	33.6	36.67	40.4	4715
3	70	Stranded, Class 2	12.0	28.7	31.7	34.1	38.1	41.22	45.5	6020
3	95	Stranded, Class 2	13.55	32.1	35.3	37.9	42.9	46.27	51.0	7799
3	120	Stranded, Class 2	15.26	35.8	39.2	41.8	46.8	50.25	55.4	9211
3	150	Stranded, Class 2	16.97	39.9	43.5	46.3	51.3	55.0	60.7	10965
3	185	Stranded, Class 2	19.05	44.4	48.2	51.2	56.2	59.95	66.1	13070
3	240	Stranded, Class 2	21.6	50.3	54.5	57.7	62.7	66.83	73.7	16348
3	300	Stranded, Class 2	24.2	55.9	60.3	63.7	68.7	73.04	81.9	19774
4	1.5	Solid, Class 1	2.79	9.0	11.4	13.8	16.4	19.4	21.4	1139
4	1.5	Stranded, Class 2	2.9	9.4	11.8	14.1	16.6	19.59	21.6	1161
4	2.5	Solid, Class 1	3.15	9.9	12.3	14.7	17.2	20.18	22.3	1254



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4	2.5	Stranded, Class 2	3.31	10.5	12.9	15.1	17.6	20.56	22.7	1295
4	4	Solid, Class 1	3.61	11.0	13.4	15.8	18.3	21.24	23.4	1417
4	4	Stranded, Class 2	3.83	11.9	14.3	16.4	18.9	21.82	24.1	1469
4	6	Stranded, Class 2	4.35	12.8	15.2	17.6	20.8	23.67	26.1	1797
4	10	Stranded, Class 2	5.25	15.0	17.4	19.8	23.0	25.8	28.5	2175
4	16	Stranded, Class 2	6.25	17.4	19.8	22.2	25.4	28.13	31.0	2657
4	25	Stranded, Class 2	7.9	21.4	24.0	26.4	29.6	32.4	35.7	3553
4	35	Stranded, Class 2	8.9	23.9	26.5	28.9	32.9	35.99	39.7	4465
4	50	Stranded, Class 2	10.2	27.1	30.1	32.5	36.5	39.67	43.8	5588
4	70	Stranded, Class 2	12.0	31.8	35.0	37.4	41.4	44.62	49.2	7179
4	95	Stranded, Class 2	13.55	35.6	39.0	41.6	46.6	50.05	55.2	9284
4	120	Stranded, Class 2	15.26	40.1	43.7	46.5	51.5	55.19	60.9	11202
4	150	Stranded, Class 2	16.97	44.3	48.1	51.1	56.1	60.04	66.2	13239
4	185	Stranded, Class 2	19.05	49.3	53.5	56.7	61.7	65.67	72.4	16017
4	240	Stranded, Class 2	21.6	55.9	60.5	63.9	68.9	73.24	80.8	20050
4	300	Stranded, Class 2	24.2	62.2	67.0	70.6	76.9	81.38	91.1	25156
5	1.5	Solid, Class 1	2.79	9.8	12.2	14.6	17.1	20.08	22.2	1231
5	1.5	Stranded, Class 2	2.9	10.3	12.7	14.9	17.4	20.37	22.5	1266
5	2.5	Solid, Class 1	3.15	10.8	13.2	15.6	18.1	21.05	23.2	1363
5	2.5	Stranded, Class 2	3.31	11.5	13.9	16.0	18.5	21.44	23.6	1407
5	4	Solid, Class 1	3.61	12.1	14.4	16.8	20.1	22.99	25.4	1677
5	4	Stranded, Class 2	3.83	13.0	15.4	17.4	20.6	23.47	25.9	1739
5	6	Stranded, Class 2	4.35	14.0	16.4	18.8	22.1	24.93	27.5	1980
5	10	Stranded, Class 2	5.25	16.5	18.9	21.3	24.5	27.26	30.1	2421
5	16	Stranded, Class 2	6.25	19.2	21.6	24.0	27.2	30.07	33.2	2990
5	25	Stranded, Class 2	7.9	23.7	26.3	28.7	32.7	35.6	39.3	4295
5	35	Stranded, Class 2	8.9	26.4	29.2	31.6	35.6	38.8	42.8	5250
5	50	Stranded, Class 2	10.2	30.3	33.3	35.7	39.7	42.97	47.4	6500
5	70	Stranded, Class 2	12.0	35.2	38.6	41.2	46.2	49.66	54.8	8920



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5	95	Stranded, Class 2	13.55	39.8	43.4	46.2	51.2	54.9	60.6	11073
5	120	Stranded, Class 2	15.26	44.4	48.2	51.2	56.2	59.95	66.1	13190
5	150	Stranded, Class 2	16.97	49.0	53.2	56.4	61.4	65.38	72.1	15790
5	185	Stranded, Class 2	19.05	55.0	59.4	62.8	67.8	71.97	79.4	19019
5	240	Stranded, Class 2	21.6	61.9	66.7	70.3	76.6	81.09	89.4	24583
5	300	Stranded, Class 2	24.2	69.3	74.5	78.5	84.8	89.63	98.9	29895
7	1.5	Stranded, Class 2	2.9	10.8	13.2	15.5	18.0	20.95	23.1	1333
7	2.5	Stranded, Class 2	3.31	12.2	14.6	16.7	19.9	22.8	25.2	1631
10	1.5	Stranded, Class 2	2.9	13.9	16.3	18.5	21.7	24.54	27.1	1802
10	2.5	Stranded, Class 2	3.31	15.7	18.1	20.1	23.3	26.09	28.8	2052
12	1.5	Stranded, Class 2	2.9	14.4	16.8	19.0	22.2	25.03	27.6	1874
12	2.5	Stranded, Class 2	3.31	16.2	18.6	20.7	23.9	26.68	29.4	2161
14	1.5	Stranded, Class 2	2.9	15.1	17.5	19.7	22.9	25.7	28.4	1989
14	2.5	Stranded, Class 2	3.31	17.1	19.5	21.5	24.7	27.45	30.3	2285
19	1.5	Stranded, Class 2	2.9	16.8	19.2	21.4	24.6	27.35	30.2	2245
19	2.5	Stranded, Class 2	3.31	19.1	21.5	23.4	26.6	29.49	32.5	2630
24	1.5	Stranded, Class 2	2.9	19.8	22.2	24.3	27.5	30.36	33.5	2652
24	2.5	Stranded, Class 2	3.31	22.5	25.1	27.0	30.2	33.17	36.6	3228
27	1.5	Stranded, Class 2	2.9	20.2	22.6	24.7	27.9	30.75	33.9	2732
27	2.5	Stranded, Class 2	3.31	23.0	25.6	27.5	31.5	34.44	38.0	3586
30	1.5	Stranded, Class 2	2.9	21.0	23.6	25.7	28.9	31.72	35.0	2982
30	2.5	Stranded, Class 2	3.31	23.9	26.5	28.4	32.4	35.5	39.2	3829
37	1.5	Stranded, Class 2	2.9	22.8	25.4	27.4	31.4	34.34	37.9	3522
37	2.5	Stranded, Class 2	3.31	25.9	28.7	30.5	34.5	37.54	41.4	4317