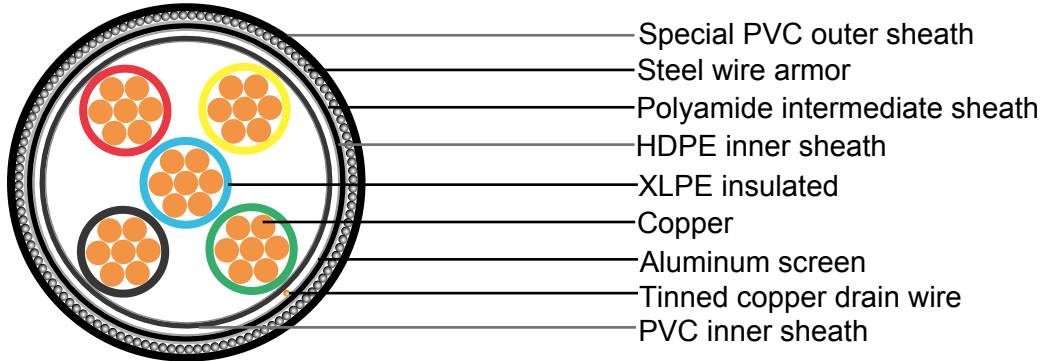


Cables for Oil Industry

600V/1000V XLPE Insulated Overall Screened & Steel Wire Armored Cable to IEC 60502-1



XLPE Insulated Overall Screened & Steel Wire Armored Cable to IEC 60502-1

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 and where aliphatic and aromatic hydrocarbon may be present or where require chemical and mechanical protections.

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. Color: black

Screen: aluminum/polyethylene tape with tinned copper drain wire

Inner sheath: HDPE. Color: black

Intermediate sheath: Polyamide

Armor: Galvanized steel wires or aluminum 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 Intermediate Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight
	Corss-section (mm ²)	Type	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)
1	25	Stranded, Class 2	7.9	11.5	15.3	18.3	20.2	619
1	35	Stranded, Class 2	8.9	12.5	16.3	19.3	21.3	732
1	50	Stranded, Class 2	10.2	13.8	17.6	20.6	22.7	891
1	70	Stranded, Class 2	12.0	15.6	19.4	22.3	24.6	1129
1	95	Stranded, Class 2	13.55	17.1	20.9	23.8	26.2	1394
1	120	Stranded, Class 2	15.26	18.8	22.6	25.4	28.0	1665
1	150	Stranded, Class 2	16.97	20.5	24.3	27.1	29.8	1963
1	185	Stranded, Class 2	19.05	22.6	26.4	29.3	32.3	2383
1	240	Stranded, Class 2	21.6	25.2	29.0	31.8	35.1	2975
1	300	Stranded, Class 2	24.2	27.7	31.5	34.4	38.0	3613
1	400	Stranded, Class 2	27.7	31.2	35.0	38.0	41.9	4505

No. of Cores	Conductor		Diameter over Insulation	Diameter over Inner Sheath	Diameter over Intermediate Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight
	Corss-section (mm ²)	Type	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)
2	1.5	Solid, Class 1	2.79	8.0	11.5	13.3	16.4	18.1	511
2	1.5	Stranded, Class 2	2.9	8.2	11.8	13.6	16.7	18.4	525
2	2.5	Solid, Class 1	3.15	8.7	12.3	14.8	17.9	19.7	661
2	2.5	Stranded, Class 2	3.31	9.0	12.6	15.1	18.1	20.0	682
2	4	Solid, Class 1	3.61	9.6	13.2	15.7	18.7	20.6	740
2	4	Stranded, Class 2	3.83	10.1	13.7	16.2	19.2	21.2	766
2	6	Stranded, Class 2	4.35	11.1	14.7	17.2	20.1	22.3	868
2	10	Stranded, Class 2	5.25	12.9	16.5	19.0	22.0	24.2	1041
2	16	Stranded, Class 2	6.25	14.9	18.5	21.7	24.5	27.1	1410
2	25	Stranded, Class 2	7.9	18.2	21.7	24.9	27.6	30.5	1833



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2	35	Stranded, Class 2	8.9	20.2	23.7	26.9	29.8	32.8	2176
2	50	Stranded, Class 2	10.2	22.8	26.3	29.5	32.5	35.8	2628
2	70	Stranded, Class 2	12.0	26.4	29.9	33.9	37.0	40.8	3569
2	95	Stranded, Class 2	13.55	29.5	33.0	37.0	40.2	44.3	4354
2	120	Stranded, Class 2	15.26	32.9	36.4	40.4	43.7	48.2	5165
3	1.5	Solid, Class 1	2.79	8.4	12.0	14.5	17.6	19.4	636
3	1.5	Stranded, Class 2	2.9	8.7	12.2	14.7	17.8	19.6	654
3	2.5	Solid, Class 1	3.15	9.2	12.8	15.3	18.3	20.2	703
3	2.5	Stranded, Class 2	3.31	9.6	13.1	15.7	18.7	20.6	729
3	4	Solid, Class 1	3.61	10.2	13.8	16.3	19.3	21.3	805
3	4	Stranded, Class 2	3.83	10.6	14.2	16.7	19.7	21.7	830
3	6	Stranded, Class 2	4.35	11.8	15.4	17.9	20.9	23.0	951
3	10	Stranded, Class 2	5.25	13.7	17.3	20.5	23.4	25.8	1291
3	16	Stranded, Class 2	6.25	15.8	19.4	22.6	25.4	28.0	1590
3	25	Stranded, Class 2	7.9	19.5	23.0	26.2	29.0	31.9	2097
3	35	Stranded, Class 2	8.9	21.7	25.2	28.4	31.2	34.4	2533
3	50	Stranded, Class 2	10.2	24.4	27.9	31.9	35.0	38.6	3347
3	70	Stranded, Class 2	12.0	28.3	31.8	35.8	39.0	43.0	4255
3	95	Stranded, Class 2	13.55	31.6	35.1	39.1	42.4	46.8	5265
4	1.5	Solid, Class 1	2.79	9.2	12.8	15.3	18.3	20.2	688
4	1.5	Stranded, Class 2	2.9	9.4	13.0	15.5	18.5	20.4	712
4	2.5	Solid, Class 1	3.15	10.0	13.7	16.2	19.2	21.2	770
4	2.5	Stranded, Class 2	3.31	10.4	14.1	16.6	19.6	21.6	799
4	4	Solid, Class 1	3.61	11.1	14.7	17.2	20.2	22.3	888
4	4	Stranded, Class 2	3.83	11.7	15.3	17.8	20.8	22.9	917
4	6	Stranded, Class 2	4.35	12.9	16.5	19.0	21.9	24.2	1052
4	10	Stranded, Class 2	5.25	15.0	18.6	21.8	24.6	27.2	1467
4	16	Stranded, Class 2	6.25	17.5	21.1	24.3	27.0	29.8	1836
4	25	Stranded, Class 2	7.9	21.6	25.1	28.3	31.1	34.4	2477



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4	35	Stranded, Class 2	8.9	23.9	27.4	30.6	33.6	37.0	3010
4	50	Stranded, Class 2	10.2	27.0	30.5	34.5	37.5	41.4	3964
4	70	Stranded, Class 2	12.0	31.4	34.9	38.9	42.2	46.6	5123
5	1.5	Solid, Class 1	2.79	9.9	13.5	16.0	19.0	21.0	751
5	1.5	Stranded, Class 2	2.9	10.2	13.9	16.4	19.4	21.4	774
5	2.5	Solid, Class 1	3.15	10.9	14.5	17.0	20.0	22.0	840
5	2.5	Stranded, Class 2	3.31	11.3	14.9	17.4	20.4	22.5	870
5	4	Solid, Class 1	3.61	12.2	15.7	18.2	21.2	23.3	979
5	4	Stranded, Class 2	3.83	12.7	16.3	18.8	21.7	24.0	1019
5	6	Stranded, Class 2	4.35	14.1	17.7	20.9	23.9	26.2	1317
5	10	Stranded, Class 2	5.25	16.5	20.1	23.3	26.1	28.8	1640
5	16	Stranded, Class 2	6.25	19.2	22.8	26.0	28.7	31.7	2096
5	25	Stranded, Class 2	7.9	23.7	27.2	30.4	33.4	36.8	2855
5	35	Stranded, Class 2	8.9	26.4	29.9	33.9	37.0	40.8	3777
5	50	Stranded, Class 2	10.2	29.9	33.4	37.4	40.6	44.7	4645
7	1.5	Stranded, Class 2	2.9	10.8	14.3	16.8	19.8	21.8	797
7	2.5	Stranded, Class 2	3.31	12.1	15.6	18.1	21.1	23.2	919
10	1.5	Stranded, Class 2	2.9	13.7	17.2	20.4	23.3	25.7	1114
10	2.5	Stranded, Class 2	3.31	15.3	18.8	22.0	24.8	27.4	1287
12	1.5	Stranded, Class 2	2.9	14.3	17.8	21.0	23.9	26.3	1179
12	2.5	Stranded, Class 2	3.31	15.9	19.4	22.6	25.4	28.0	1371
14	1.5	Stranded, Class 2	2.9	15.0	18.5	21.7	24.5	27.1	1251
14	2.5	Stranded, Class 2	3.31	16.7	20.2	23.4	26.2	28.9	1475
19	1.5	Stranded, Class 2	2.9	16.6	20.1	23.3	26.1	28.8	1427
19	2.5	Stranded, Class 2	3.31	18.7	22.2	25.4	28.1	31.0	1724
24	1.5	Stranded, Class 2	2.9	19.5	23.0	26.2	28.9	31.9	1678
24	2.5	Stranded, Class 2	3.31	22.1	25.6	28.8	31.6	34.9	2050
27	1.5	Stranded, Class 2	2.9	20.0	23.5	26.7	29.6	32.6	1776
27	2.5	Stranded, Class 2	3.31	22.5	26.0	29.2	32.0	35.3	2154



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30	1.5	Stranded, Class 2	2.9	20.7	24.2	27.4	30.3	33.4	1884
30	2.5	Stranded, Class 2	3.31	23.4	26.9	30.1	33.1	36.5	2305
37	1.5	Stranded, Class 2	2.9	22.4	25.9	29.1	31.9	35.2	2099
37	2.5	Stranded, Class 2	3.31	25.3	28.8	32.8	35.9	39.6	2851

