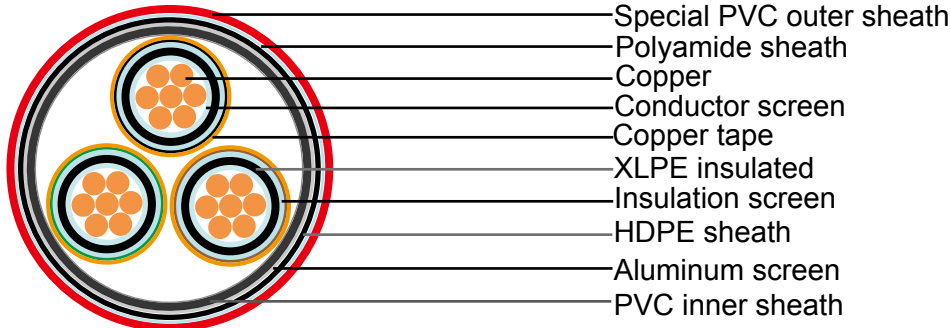




# Cables for Oil Industry

## Medium Voltage XLPE Insulated Overall Screened Cable to IEC 60502-2



### XLPE Insulated Overall Screened Cable to IEC 60502-2

#### Applications

These cables are suitable for installation mostly in power supply stations, indoors and in cable ducts, outdoors, underground and in water as well as for installation on cable trays for industries.

#### Standards

IEC 60228; IEC 60502-2

#### Construction

Conductor: Stranded bare copper (class 2)

Conductor screen: This will be an extruded layer of semi-conducting crosslinkable compound applied under simultaneous triple extrusion process over the conductor along with the insulation and the insulation screen.

Insulation: XLPE

Insulation screen: This will be a layer of semi-conducting crosslinkable compound which will be applied by triple extrusion process over the insulation.

Core identification:

1 Core: Natural

3 Cores: Black, Green, Brown

Inner sheath: PVC Color black

Overall screen: Aluminum/polyethylene tape

Sheath: HDPE Color: black

Special sheath (intermediate sheath): Polyamide

Outer sheath: Special PVC. Color: red. U.V resistance can be offered upon request.

#### Properties

Fire retardance: IEC 60332-3-22

Operating temperature: -20~60°C

Max. conductor operating temperature: 90°C

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance



## 1 Core

Conductor Corss- section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Intermediate Sheath	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage Uo/ U(Um)
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	15.6	19.9	22.6	24.9	778	3.6 / 6 (7.2)
35	13.3	14.7	16.6	20.9	23.6	26.0	892	3.6 / 6 (7.2)
50	14.4	15.8	17.7	22.1	24.7	27.3	1037	3.6 / 6 (7.2)
70	16.0	17.4	19.4	23.7	26.5	29.2	1285	3.6 / 6 (7.2)
95	17.55	19.0	20.9	25.2	27.9	30.8	1567	3.6 / 6 (7.2)
120	19.06	20.5	22.4	26.7	29.6	32.6	1849	3.6 / 6 (7.2)
150	20.37	21.8	23.7	28.0	30.8	34.0	2130	3.6 / 6 (7.2)
185	22.05	23.5	25.4	29.7	32.7	36.1	2532	3.6 / 6 (7.2)
240	24.6	26.0	28.5	32.8	35.9	39.6	3194	3.6 / 6 (7.2)
300	27.4	28.8	31.2	35.5	38.7	42.7	3871	3.6 / 6 (7.2)
400	30.9	32.3	34.7	39.0	42.3	46.7	4773	3.6 / 6 (7.2)
500	35.4	36.8	39.6	43.9	47.2	52.1	5997	3.6 / 6 (7.2)
630	39.8	41.2	42.8	47.1	50.5	55.7	7455	3.6 / 6 (7.2)
25	14.1	15.5	17.4	21.7	24.3	26.9	850	6 / 10 (12)
35	15.1	16.5	18.4	22.7	25.5	28.1	984	6 / 10 (12)
50	16.2	17.6	19.5	23.8	26.6	29.3	1132	6 / 10 (12)
70	17.8	19.2	21.3	25.6	28.5	31.5	1397	6 / 10 (12)
95	19.35	20.8	22.7	27.0	29.9	33.0	1675	6 / 10 (12)
120	20.86	22.3	24.2	28.5	31.5	34.8	1965	6 / 10 (12)
150	22.17	23.6	25.5	29.8	32.8	36.2	2254	6 / 10 (12)
185	23.85	25.3	27.6	31.9	35.0	38.6	2692	6 / 10 (12)
240	26.2	27.6	30.1	34.4	37.4	41.3	3298	6 / 10 (12)
300	28.6	30.0	32.4	36.7	39.9	44.0	3954	6 / 10 (12)
400	31.7	33.1	35.5	39.8	43.1	47.5	4831	6 / 10 (12)
500	35.8	37.2	40.0	44.3	47.6	52.5	6030	6 / 10 (12)
630	40.2	41.6	43.2	47.5	50.9	56.2	7491	6 / 10 (12)
25	16.3	17.7	19.6	23.9	26.7	29.4	968	8.7 / 15 (17.5)
35	17.3	18.7	20.6	24.9	27.6	30.5	1097	8.7 / 15 (17.5)
50	18.4	19.8	21.8	26.1	29.0	32.0	1269	8.7 / 15 (17.5)
70	20.0	21.4	23.4	27.7	30.6	33.7	1510	8.7 / 15 (17.5)



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95	21.55	23.0	24.9	29.2	32.2	35.5	1814	8.7 / 15 (17.5)
120	23.06	24.5	26.4	30.7	33.7	37.1	2097	8.7 / 15 (17.5)
150	24.37	25.8	28.1	32.4	35.5	39.2	2439	8.7 / 15 (17.5)
185	26.05	27.5	29.8	34.1	37.2	41.0	2839	8.7 / 15 (17.5)
240	28.4	29.8	32.3	36.6	39.8	43.9	3472	8.7 / 15 (17.5)
300	30.8	32.2	34.6	38.9	42.2	46.5	4133	8.7 / 15 (17.5)
400	33.9	35.3	38.1	42.4	45.8	50.5	5068	8.7 / 15 (17.5)
500	38.0	39.4	42.2	46.5	50.0	55.1	6242	8.7 / 15 (17.5)
630	42.4	43.8	45.4	49.7	53.3	58.7	7714	8.7 / 15 (17.5)
35	19.3	20.7	22.6	26.9	29.8	32.8	1214	12 / 20 (24)
50	20.4	21.8	23.7	28.0	30.8	34.0	1369	12 / 20 (24)
70	22.0	23.4	25.4	29.7	32.7	36.1	1640	12 / 20 (24)
95	23.55	25.0	27.3	31.6	34.7	38.3	1987	12 / 20 (24)
120	25.06	26.5	28.8	33.1	36.2	39.9	2276	12 / 20 (24)
150	26.37	27.8	30.1	34.4	37.6	41.5	2592	12 / 20 (24)
185	28.05	29.5	31.8	36.1	39.3	43.3	2999	12 / 20 (24)
240	30.4	31.8	34.3	38.6	41.9	46.2	3638	12 / 20 (24)
300	32.8	34.2	36.6	40.9	44.3	48.9	4314	12 / 20 (24)
400	35.9	37.3	40.1	44.4	47.9	52.9	5257	12 / 20 (24)
500	40.0	41.4	44.3	48.6	52.2	57.6	6483	12 / 20 (24)
630	44.4	45.8	47.4	51.7	55.4	61.1	7930	12 / 20 (24)
25	26.3	27.7	30.0	34.3	37.3	41.2	1636	18 / 30 (36)
50	25.4	26.8	29.1	33.4	36.5	40.2	1740	18 / 30 (36)
70	27.0	28.4	30.8	35.1	38.3	42.3	2034	18 / 30 (36)
95	28.55	30.0	32.3	36.6	39.8	43.9	2346	18 / 30 (36)
120	30.06	31.5	33.8	38.1	41.4	45.7	2669	18 / 30 (36)
150	31.37	32.8	35.1	39.4	42.7	47.1	2971	18 / 30 (36)
185	33.05	34.5	36.8	41.1	44.5	49.1	3416	18 / 30 (36)
240	35.4	36.8	39.7	44.0	47.5	52.4	4115	18 / 30 (36)

### 3 Cores

Conductor Cross- section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Intermediate Sheath	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage U <sub>0</sub> / U <sub>m</sub>
(mm <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	33.1	37.4	40.5	44.7	2760	3.6 / 6 (7.2)



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35	13.3	14.7	35.3	39.6	42.9	47.3	3228	3.6 / 6 (7.2)
50	14.4	15.8	38.1	42.4	45.8	50.5	3835	3.6 / 6 (7.2)
70	16.0	17.4	41.8	46.1	49.6	54.7	4788	3.6 / 6 (7.2)
95	17.55	19.0	45.1	49.4	53.0	58.4	5856	3.6 / 6 (7.2)
120	19.06	20.5	48.8	53.1	56.9	62.8	6998	3.6 / 6 (7.2)
150	20.37	21.8	51.7	56.0	59.9	66.1	8092	3.6 / 6 (7.2)
185	22.05	23.5	55.4	59.7	63.7	70.3	9585	3.6 / 6 (7.2)
25	14.1	15.5	37.1	41.4	44.8	49.4	3213	6 / 10 (12)
35	15.1	16.5	39.6	43.9	47.2	52.1	3723	6 / 10 (12)
50	16.2	17.6	42.1	46.4	49.9	55.0	4333	6 / 10 (12)
70	17.8	19.2	45.8	50.1	53.8	59.4	5343	6 / 10 (12)
95	19.35	20.8	49.5	53.8	57.6	63.6	6516	6 / 10 (12)
120	20.86	22.3	52.8	57.1	61.0	67.3	7619	6 / 10 (12)
150	22.17	23.6	55.7	60.0	64.0	70.6	8741	6 / 10 (12)
185	23.85	25.3	59.4	63.7	67.8	74.8	10259	6 / 10 (12)
25	16.3	17.7	42.3	46.6	50.1	55.2	3843	8.7 / 15 (17.5)
35	17.3	18.7	44.5	48.8	52.4	57.8	4380	8.7 / 15 (17.5)
50	18.4	19.8	46.9	51.2	54.9	60.6	5022	8.7 / 15 (17.5)
70	20.0	21.4	51.8	55.3	59.1	65.2	6117	8.7 / 15 (17.5)
35	19.3	20.7	49.3	53.6	57.4	63.3	5086	12 / 20 (24)
50	20.4	21.8	51.7	56.0	59.9	66.1	5763	12 / 20 (24)
70	22.0	23.4	55.4	59.7	63.7	70.3	6856	12 / 20 (24)

