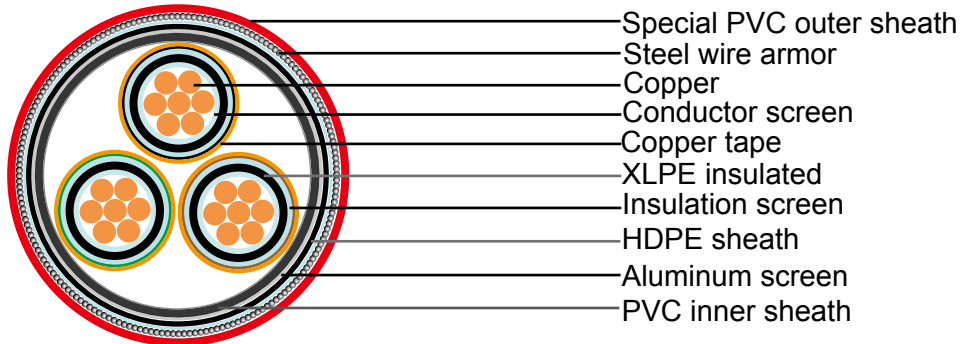




Cables for Oil Industry

Medium Voltage XLPE Insulated Overall Screened & Steel Wire Armored Cable to IEC 60502-2



XLPE Insulated Overall Screened Steel Wire Armored 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, switchboards and power stations, where require chemical and mechanical protection.

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: Cross-linked polyethylene (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

Overall screen: Aluminum/polyethylene tape

Sheath: HDPE Color: black

Special sheath (intermediate sheath): Polyamide

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

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 Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Intermediate Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage U ₀ /U _m
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	15.6	19.9	23.7	29.0	32.0	1240	3.6 / 6 (7.2)
35	13.3	14.7	16.6	20.9	24.7	30.0	33.1	1366	3.6 / 6 (7.2)
50	14.4	15.8	17.7	22.1	25.9	31.1	34.3	1534	3.6 / 6 (7.2)
70	16.0	17.4	19.4	23.7	27.5	32.7	36.1	1802	3.6 / 6 (7.2)
95	17.55	19.0	20.9	25.2	29.0	34.1	37.7	2107	3.6 / 6 (7.2)
120	19.06	20.5	22.4	26.7	30.5	35.6	39.3	2406	3.6 / 6 (7.2)
150	20.37	21.8	23.7	28.0	31.8	36.9	40.7	2710	3.6 / 6 (7.2)
185	22.05	23.5	25.4	29.7	33.5	38.5	42.5	3126	3.6 / 6 (7.2)
240	24.6	26.0	28.5	32.8	36.6	41.5	45.8	3822	3.6 / 6 (7.2)
300	27.4	28.8	31.2	35.5	39.3	44.1	48.7	4521	3.6 / 6 (7.2)
400	30.9	32.3	34.7	39.0	44.0	49.1	54.1	5682	3.6 / 6 (7.2)
500	35.4	36.8	39.6	43.9	48.9	54.0	59.6	6993	3.6 / 6 (7.2)
630	39.8	41.2	42.8	47.1	52.1	57.3	63.2	8521	3.6 / 6 (7.2)
25	14.1	15.5	17.5	21.8	26.8	30.8	34.0	1354	6 / 10 (12)
35	15.1	16.5	18.5	22.8	27.8	31.8	35.1	1494	6 / 10 (12)
50	16.2	17.6	19.6	23.9	28.9	32.9	36.3	1666	6 / 10 (12)
70	17.8	19.2	21.2	25.6	30.6	34.5	38.1	1946	6 / 10 (12)
95	19.35	20.8	22.8	27.1	32.1	36.0	39.7	2248	6 / 10 (12)
120	20.86	22.3	24.3	28.6	33.6	37.4	41.3	2555	6 / 10 (12)
150	22.17	23.6	25.6	29.9	34.9	38.7	42.7	2869	6 / 10 (12)
185	23.85	25.3	27.7	32.0	37.0	40.7	44.9	3323	6 / 10 (12)
240	26.2	27.6	30.0	34.3	39.3	43.0	47.4	3967	6 / 10 (12)
300	28.6	30.0	32.4	36.7	41.7	45.5	50.2	4672	6 / 10 (12)
400	31.7	33.1	35.5	39.8	46.0	49.9	55.0	5848	6 / 10 (12)
500	35.8	37.2	40.0	44.3	50.5	54.4	60.0	7152	6 / 10 (12)
630	40.2	41.6	44.5	48.8	55.0	59.0	65.1	8732	6 / 10 (12)



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25	16.3	17.7	21.6	26.0	29.8	34.9	38.5	1670	8.7 / 15 (17.5)
35	17.3	18.7	22.6	26.9	30.7	35.8	39.5	1805	8.7 / 15 (17.5)
50	18.4	19.8	23.7	28.0	31.8	36.9	40.7	1984	8.7 / 15 (17.5)
70	20.0	21.4	25.4	29.7	33.5	38.5	42.5	2271	8.7 / 15 (17.5)
95	21.55	23.0	26.9	31.2	35.0	40.0	44.1	2598	8.7 / 15 (17.5)
120	23.06	24.5	28.4	32.7	36.5	41.4	45.7	2914	8.7 / 15 (17.5)
150	24.37	25.8	29.7	34.0	37.8	42.7	47.1	3231	8.7 / 15 (17.5)
185	26.05	27.5	31.4	35.7	39.5	44.3	48.9	3660	8.7 / 15 (17.5)
240	28.4	29.8	33.9	38.2	42.0	46.9	51.8	4356	8.7 / 15 (17.5)
300	30.8	32.2	36.2	40.5	45.5	50.5	55.7	5234	8.7 / 15 (17.5)
400	33.9	35.3	39.3	43.6	48.6	53.7	59.3	6205	8.7 / 15 (17.5)
500	38.0	39.4	43.4	47.7	52.7	57.9	63.9	7474	8.7 / 15 (17.5)
630	42.4	43.8	46.6	50.9	55.9	61.2	67.5	9025	8.7 / 15 (17.5)
35	19.3	20.7	24.7	29.0	34.0	37.8	41.7	1975	12 / 20 (24)
50	20.4	21.8	25.8	30.1	35.1	38.9	42.9	2165	12 / 20 (24)
70	22.0	23.4	27.4	31.7	36.7	40.4	44.6	2454	12 / 20 (24)
95	23.55	25.0	29.0	33.3	38.3	42.0	46.3	2783	12 / 20 (24)
120	25.06	26.5	30.5	34.8	39.8	43.5	47.9	3107	12 / 20 (24)
150	26.37	27.8	31.8	36.1	41.1	44.7	49.3	3437	12 / 20 (24)
185	28.05	29.5	33.5	37.8	42.8	46.6	51.4	3906	12 / 20 (24)
240	30.4	31.8	35.8	40.1	46.3	50.1	55.3	4746	12 / 20 (24)
300	32.8	34.2	38.2	42.5	48.7	52.7	58.1	5486	12 / 20 (24)
400	35.9	37.3	41.3	45.6	51.8	55.9	61.6	6512	12 / 20 (24)
500	40.0	41.4	45.5	49.8	56.0	60.1	66.3	7876	12 / 20 (24)
630	44.4	45.8	49.9	54.2	60.4	64.6	71.3	9508	12 / 20 (24)
25	26.3	27.7	30.7	36.0	41.0	44.6	49.2	2513	18 / 30 (36)
50	25.4	26.8	30.8	35.1	40.1	43.7	48.3	2590	18 / 30 (36)
70	27.0	28.4	32.4	36.7	41.7	45.3	50.0	2915	18 / 30 (36)
95	28.55	30.0	34.0	38.3	44.5	48.2	53.2	3439	18 / 30 (36)
120	30.06	31.5	35.5	39.8	46.0	49.9	55.0	3804	18 / 30 (36)



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150	31.37	32.8	36.8	41.1	47.3	51.1	56.4	4141	18 / 30 (36)
185	33.05	34.5	38.5	42.8	49.0	53.0	58.4	4619	18 / 30 (36)
240	35.4	36.8	40.8	45.1	51.3	55.4	61.1	5340	18 / 30 (36)

3 Cores

Conductor Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Intermediate Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage U ₀ /U ₁ (U _m)
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	33.3	37.6	42.6	47.5	52.4	3703	3.6 / 6 (7.2)
35	13.3	14.7	35.5	39.8	44.8	49.9	55.0	4226	3.6 / 6 (7.2)
50	14.4	15.8	38.3	42.6	47.6	52.8	58.2	4894	3.6 / 6 (7.2)
70	16.0	17.4	42.1	46.3	51.3	56.6	62.4	5932	3.6 / 6 (7.2)
95	17.55	19.0	45.4	49.6	54.6	60.1	66.3	7115	3.6 / 6 (7.2)
120	19.06	20.5	49.1	53.3	58.3	63.9	70.5	8326	3.6 / 6 (7.2)
150	20.37	21.8	51.9	56.2	61.2	66.9	73.8	9501	3.6 / 6 (7.2)
185	22.05	23.5	55.7	59.9	64.9	70.7	78.0	11084	3.6 / 6 (7.2)
25	14.1	15.5	37.5	41.8	48.0	52.0	57.4	5768	6 / 10 (12)
35	15.1	16.5	40.1	44.4	50.6	54.7	60.3	6460	6 / 10 (12)
50	16.2	17.6	42.5	46.8	53.0	57.2	63.1	7220	6 / 10 (12)
70	17.8	19.2	46.0	50.3	56.5	60.8	67.1	8370	6 / 10 (12)
95	19.35	20.8	50.0	54.2	60.4	64.8	71.5	9790	6 / 10 (12)
120	20.86	22.3	53.3	57.5	63.7	68.2	75.2	11091	6 / 10 (12)
150	22.17	23.6	56.1	60.4	66.6	71.2	78.5	12406	6 / 10 (12)
185	23.85	25.3	59.9	64.1	71.6	76.4	84.3	15045	6 / 10 (12)
25	16.3	17.7	45.5	49.8	54.8	59.9	66.1	5467	8.7 / 15 (17.5)
35	17.3	18.7	44.7	52.0	57.0	62.3	68.7	6070	8.7 / 15 (17.5)
50	18.4	19.8	50.1	54.4	59.4	64.8	71.5	6796	8.7 / 15 (17.5)
70	20.0	21.4	53.9	58.1	63.1	68.6	75.6	7964	8.7 / 15 (17.5)
35	19.3	20.7	52.3	56.6	62.8	67.1	74.0	8929	12 / 20 (24)
50	20.4	21.8	54.8	59.0	65.2	69.6	76.8	9773	12 / 20 (24)
70	22.0	23.4	58.3	62.5	68.7	73.2	80.8	11096	12 / 20 (24)