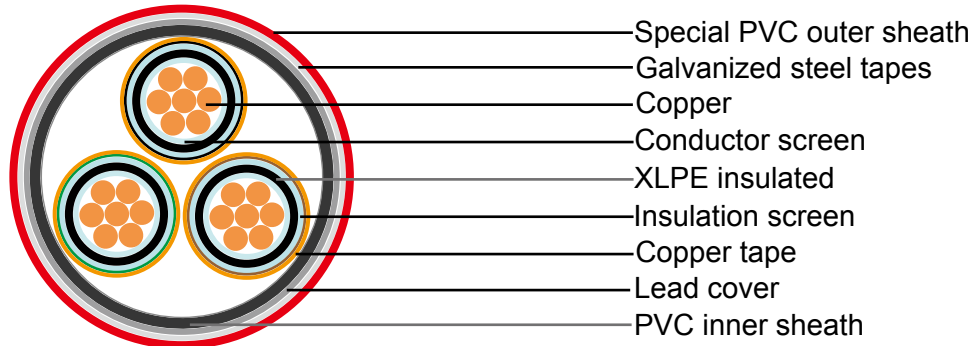


Cables for Oil Industry

Medium Voltage XLPE Insulated Galvanized Steel Tape Armored Cable with Lead Cover to IEC 60502-2



XLPE Insulated Galvanized Steel Tape Armored Cable with Lead Cover 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. The lead cover brings an enhanced resistance to aromatic hydrocarbon.

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

Lead cover

Armor: Galvanized steel tapes for 3 cores or aluminium tapes for 1 core cable

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

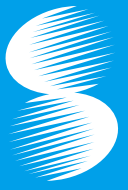
Max. conductor operating temperature: 90°C

Chemical resistance: Aliphatic and aromatic hydrocarbon resistance



1 Core

Conductor Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Lead Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage U ₀ /U(U _m)
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	15.7	18.1	21.9	31.9	35.2	2163	3.6 / 6 (7.2)
35	13.3	14.7	16.7	19.1	22.9	32.9	36.3	2353	3.6 / 6 (7.2)
50	14.4	15.8	17.8	20.2	24.0	34.0	37.5	2569	3.6 / 6 (7.2)
70	16.0	17.4	19.4	22.0	25.8	35.7	39.4	2993	3.6 / 6 (7.2)
95	17.55	19.0	21.0	23.6	27.4	37.2	41.1	3387	3.6 / 6 (7.2)
120	19.06	20.5	22.5	25.3	29.1	38.9	42.9	3856	3.6 / 6 (7.2)
150	20.37	21.8	23.8	26.6	30.4	40.2	44.3	4236	3.6 / 6 (7.2)
185	22.05	23.5	25.5	28.3	32.1	41.8	46.1	4747	3.6 / 6 (7.2)
240	24.6	26.0	28.4	31.4	35.2	44.8	49.4	5707	3.6 / 6 (7.2)
300	27.4	28.8	31.2	34.4	38.2	47.7	52.6	6708	3.6 / 6 (7.2)
400	30.9	32.3	34.7	38.1	41.9	51.5	56.8	8099	3.6 / 6 (7.2)
500	35.4	36.8	39.6	43.2	47.0	56.6	62.5	9906	3.6 / 6 (7.2)
630	39.8	41.2	44.1	47.9	51.7	61.4	67.7	11953	3.6 / 6 (7.2)
25	14.1	15.5	17.5	19.9	23.7	33.7	37.1	2367	6 / 10 (12)
35	15.1	16.5	18.5	20.9	24.7	34.6	38.2	2554	6 / 10 (12)
50	16.2	17.6	19.6	22.2	26.0	35.9	39.6	2863	6 / 10 (12)
70	17.8	19.2	21.2	23.8	27.6	37.4	41.3	3212	6 / 10 (12)
95	19.35	20.8	22.8	25.6	29.4	39.2	43.2	3707	6 / 10 (12)
120	20.86	22.3	24.3	27.1	30.9	40.6	44.8	4093	6 / 10 (12)
150	22.17	23.6	25.6	28.4	32.2	41.9	46.2	4476	6 / 10 (12)
185	23.85	25.3	27.7	30.7	34.5	44.1	48.7	5166	6 / 10 (12)
240	26.2	27.6	30.0	33.2	37.0	46.6	51.4	6063	6 / 10 (12)
300	28.6	30.0	32.4	35.6	39.4	48.9	53.9	6891	6 / 10 (12)
400	31.7	33.1	35.5	38.9	42.7	52.3	57.7	8226	6 / 10 (12)
500	35.8	37.2	40.0	43.6	47.4	57.0	62.9	9975	6 / 10 (12)
630	40.2	41.6	44.5	48.3	52.1	61.8	68.2	12027	6 / 10 (12)
25	16.3	17.7	19.7	22.3	26.1	36.0	39.7	2707	8.7 / 15 (17.5)
35	17.3	18.7	20.7	23.3	27.1	37.0	40.8	2904	8.7 / 15 (17.5)



Cables for Oil Industry

50	18.4	19.8	21.8	24.4	28.2	38.0	41.9	3134	8.7 / 15 (17.5)
70	20.0	21.4	23.4	26.2	30.0	39.8	43.9	3590	8.7 / 15 (17.5)
95	21.55	23.0	25.0	27.8	31.6	41.3	45.6	3998	8.7 / 15 (17.5)
120	23.06	24.5	26.5	29.5	33.3	43.0	47.4	4501	8.7 / 15 (17.5)
150	24.37	25.8	28.2	31.2	35.0	44.6	49.2	4954	8.7 / 15 (17.5)
185	26.05	27.5	29.9	33.1	36.9	46.5	51.3	5608	8.7 / 15 (17.5)
240	28.4	29.8	32.2	35.4	39.2	48.7	53.7	6395	8.7 / 15 (17.5)
300	30.8	32.2	34.6	38.0	41.8	51.4	56.7	7396	8.7 / 15 (17.5)
400	33.9	35.3	38.1	41.7	45.5	55.2	60.9	8835	8.7 / 15 (17.5)
500	38.0	39.4	42.2	46.0	49.8	59.6	65.7	10551	8.7 / 15 (17.5)
630	42.4	43.8	46.7	50.7	54.5	64.5	71.2	12687	8.7 / 15 (17.5)
50	20.4	21.8	23.8	26.6	30.4	40.2	44.3	3488	12 / 20 (24)
70	22.0	23.4	25.4	28.2	32.0	41.7	46.0	3855	12 / 20 (24)
95	23.55	25.0	27.4	30.4	34.2	43.8	48.4	4442	12 / 20 (24)
120	25.06	26.5	28.9	31.9	35.7	45.3	50.0	4844	12 / 20 (24)
150	26.37	27.8	30.2	33.4	37.2	46.8	51.6	5368	12 / 20 (24)
185	28.05	29.5	31.9	35.1	38.9	48.4	53.4	5908	12 / 20 (24)
240	30.4	31.8	34.2	37.6	41.4	51.0	56.3	6866	12 / 20 (24)
300	32.8	34.2	36.6	40.0	43.8	53.5	59.1	7747	12 / 20 (24)
400	35.9	37.3	40.1	43.7	47.5	57.3	63.2	9185	12 / 20 (24)
500	40.0	41.4	44.3	48.1	51.9	61.8	68.2	10972	12 / 20 (24)
630	44.4	45.8	48.7	52.7	56.5	66.4	73.3	13084	12 / 20 (24)
50	25.4	26.8	29.2	32.2	36.0	45.6	50.3	4348	18 / 30 (36)
70	27.0	28.4	30.8	34.0	37.8	47.3	52.2	4881	18 / 30 (36)
95	28.55	30.0	32.4	35.6	39.4	48.9	53.9	5302	18 / 30 (36)
120	30.06	31.5	33.9	37.3	41.1	50.7	56.0	5889	18 / 30 (36)
150	31.37	32.8	35.2	38.6	42.4	52.0	57.4	6302	18 / 30 (36)
185	33.05	34.5	36.9	40.5	44.3	54.0	59.6	7041	18 / 30 (36)
240	35.4	36.8	39.6	43.2	47.0	56.8	62.7	7973	18 / 30 (36)
300	37.8	39.2	42.0	45.8	49.6	59.4	65.5	9053	18 / 30 (36)
400	40.9	42.3	45.2	49.2	53.0	63.1	69.6	10514	18 / 30 (36)
500	45.0	46.4	49.7	53.9	57.7	67.8	74.8	12465	18 / 30 (36)



3 Cores

Conductor Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner Sheath	Diameter over Lead Sheath	Diameter over Armor	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage U _o /U _m
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	33.3	36.7	40.5	46.1	50.8	5486	3.6 / 6 (7.2)
35	13.3	14.7	35.5	38.9	42.7	48.2	53.2	6076	3.6 / 6 (7.2)
50	14.4	15.8	38.4	42.0	45.8	51.2	56.5	7017	3.6 / 6 (7.2)
70	16.0	17.4	41.9	45.7	49.5	54.8	60.5	8307	3.6 / 6 (7.2)
95	17.55	19.0	45.4	49.4	53.2	58.4	64.4	9779	3.6 / 6 (7.2)
120	19.06	20.5	48.7	52.9	56.7	61.8	68.2	11213	3.6 / 6 (7.2)
150	20.37	21.8	52.0	56.4	60.2	65.2	71.9	12767	3.6 / 6 (7.2)
185	22.05	23.5	55.7	60.3	64.1	69.0	76.1	14697	3.6 / 6 (7.2)
240	24.6	26.0	61.2	66.0	69.8	74.5	82.2	17586	3.6 / 6 (7.2)
25	14.1	15.5	37.3	40.7	44.5	50.0	55.1	6159	6 / 10 (12)
35	15.1	16.5	39.9	43.5	47.3	52.7	58.1	7012	6 / 10 (12)
50	16.2	17.6	42.3	46.1	49.9	55.2	60.9	7923	6 / 10 (12)
70	17.8	19.2	45.8	49.8	53.6	58.8	64.8	9262	6 / 10 (12)
95	19.35	20.8	49.8	54.0	57.8	62.9	69.3	10876	6 / 10 (12)
120	20.86	22.3	53.1	57.5	61.3	66.3	73.1	12382	6 / 10 (12)
150	22.17	23.6	55.9	60.5	64.3	69.2	76.3	13886	6 / 10 (12)
185	23.85	25.3	59.7	64.5	68.3	73.0	80.6	15867	6 / 10 (12)
240	26.2	27.6	64.7	69.7	73.5	78.3	86.3	18765	6 / 10 (12)
25	16.3	17.7	42.5	46.3	50.1	55.4	61.1	7455	8.7 / 15 (17.5)
35	17.3	18.7	44.7	48.7	52.5	57.7	63.7	8295	8.7 / 15 (17.5)
50	18.4	19.8	47.2	51.4	55.2	60.3	66.6	9263	8.7 / 15 (17.5)
70	20.0	21.4	51.1	55.3	59.1	64.1	70.7	10566	8.7 / 15 (17.5)
95	21.55	23.0	54.6	59.2	63.0	67.9	74.9	12375	8.7 / 15 (17.5)
120	23.06	24.5	57.9	62.7	66.5	71.3	78.6	13950	8.7 / 15 (17.5)
150	24.37	25.8	60.8	65.6	69.4	74.1	81.7	15281	8.7 / 15 (17.5)
185	26.05	27.5	64.5	69.5	73.3	78.1	86.1	17375	8.7 / 15 (17.5)
240	28.4	29.8	70.0	75.4	80.6	85.7	94.6	21795	8.7 / 15 (17.5)
35	19.3	20.7	49.5	53.7	57.5	62.6	69.0	9479	12 / 20 (24)
50	20.4	21.8	52.0	56.4	60.2	65.2	71.9	10501	12 / 20 (24)



Cables for Oil Industry

70	22.0	23.4	55.5	60.1	63.9	68.8	75.9	11986	12 / 20 (24)
95	23.55	25.0	59.0	63.8	67.6	72.4	79.8	13640	12 / 20 (24)
120	25.06	26.5	62.3	67.3	71.1	76.0	83.8	15312	12 / 20 (24)
150	26.37	27.8	65.6	70.8	74.6	79.5	87.7	17098	12 / 20 (24)
185	28.05	29.5	69.3	74.7	79.9	84.9	93.6	20214	12 / 20 (24)
50	25.4	26.8	63.0	68.0	71.8	76.6	84.5	13849	18 / 30 (36)
70	27.0	28.4	66.9	72.1	75.9	80.8	89.1	15699	18 / 30 (36)
95	28.55	30.0	70.4	75.8	81.0	86.1	95.0	18515	18 / 30 (36)
150	31.37	32.8	76.6	82.4	87.6	92.9	102.1	22128	18 / 30 (36)

