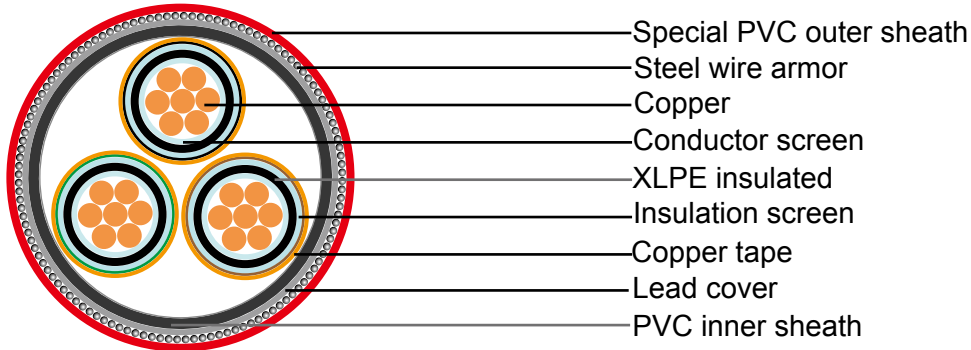




Medium Voltage XLPE Insulated Steel Wire Armored Cable with Lead Cover to IEC 60502-2



XLPE Insulated Steel Wire 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 aliphatic and 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 wires for 3 cores or aluminium wires 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



Cables for Oil Industry

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 _m
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	15.7	18.1	24.3	28.4	31.4	1906	3.6 / 6 (7.2)
35	13.3	14.7	16.7	19.1	25.3	29.4	32.4	2076	3.6 / 6 (7.2)
50	14.4	15.8	17.8	20.2	26.4	30.5	33.6	2289	3.6 / 6 (7.2)
70	16.0	17.4	19.4	22.0	28.2	32.2	35.5	2702	3.6 / 6 (7.2)
95	17.55	19.0	21.0	23.6	29.8	33.8	37.2	3089	3.6 / 6 (7.2)
120	19.06	20.5	22.5	25.3	31.5	35.4	39.1	3540	3.6 / 6 (7.2)
150	20.37	21.8	23.8	26.6	32.8	36.7	40.4	3909	3.6 / 6 (7.2)
185	22.05	23.5	25.5	28.3	34.5	38.3	42.3	4410	3.6 / 6 (7.2)
240	24.6	26.0	28.4	31.4	37.6	41.3	45.6	5350	3.6 / 6 (7.2)
300	27.4	28.8	31.2	34.4	42.0	45.8	50.5	6536	3.6 / 6 (7.2)
400	30.9	32.3	34.7	38.1	45.7	49.6	54.7	7923	3.6 / 6 (7.2)
500	35.4	36.8	39.6	43.2	51.0	55.1	60.8	9781	3.6 / 6 (7.2)
630	39.8	41.2	44.1	47.9	55.9	60.0	66.2	11857	3.6 / 6 (7.2)
25	14.1	15.5	17.5	19.9	26.1	30.2	33.3	2084	6 / 10 (12)
35	15.1	16.5	18.5	20.9	27.1	31.1	34.3	2269	6 / 10 (12)
50	16.2	17.6	19.6	22.2	28.4	32.4	35.7	2568	6 / 10 (12)
70	17.8	19.2	21.2	23.8	30.0	34.0	37.5	2909	6 / 10 (12)
95	19.35	20.8	22.8	25.6	31.8	35.7	39.4	3393	6 / 10 (12)
120	20.86	22.3	24.3	27.1	33.3	37.2	41.0	3765	6 / 10 (12)
150	22.17	23.6	25.6	28.4	34.6	38.4	42.4	4138	6 / 10 (12)
185	23.85	25.3	27.7	30.7	36.9	40.6	44.8	4813	6 / 10 (12)
240	26.2	27.6	30.0	33.2	39.4	43.1	47.5	5694	6 / 10 (12)
300	28.6	30.0	32.4	35.6	43.2	46.9	51.8	6723	6 / 10 (12)
400	31.7	33.1	35.5	38.9	46.5	50.5	55.7	8075	6 / 10 (12)
500	35.8	37.2	40.0	43.6	51.4	55.5	61.2	9842	6 / 10 (12)
630	40.2	41.6	44.5	48.3	56.3	60.4	66.7	11925	6 / 10 (12)
25	16.3	17.7	19.7	22.3	28.5	32.5	35.8	2410	8.7 / 15 (17.5)
35	17.3	18.7	20.7	23.3	29.5	33.5	36.9	2604	8.7 / 15 (17.5)
50	18.4	19.8	21.8	24.4	30.6	34.5	38.1	2828	8.7 / 15 (17.5)
70	20.0	21.4	23.4	26.2	32.4	36.3	40.0	3271	8.7 / 15 (17.5)



Cables for Oil Industry

95	21.55	23.0	25.0	27.8	34.0	37.8	41.7	3664	8.7 / 15 (17.5)
120	23.06	24.5	26.5	29.5	35.7	39.5	43.5	4157	8.7 / 15 (17.5)
150	24.37	25.8	28.2	31.2	37.4	41.1	45.4	4600	8.7 / 15 (17.5)
185	26.05	27.5	29.9	33.1	39.3	43.0	47.4	5240	8.7 / 15 (17.5)
240	28.4	29.8	32.2	35.4	43.0	46.9	51.8	6255	8.7 / 15 (17.5)
300	30.8	32.2	34.6	38.0	45.6	49.5	54.6	7223	8.7 / 15 (17.5)
400	33.9	35.3	38.1	41.7	49.5	53.6	59.2	8710	8.7 / 15 (17.5)
500	38.0	39.4	42.2	46.0	53.8	58.0	64.0	10418	8.7 / 15 (17.5)
630	42.4	43.8	46.7	50.7	58.7	63.0	69.4	12554	8.7 / 15 (17.5)
35	19.3	20.7	22.7	25.5	31.7	35.6	39.3	2937	12 / 20 (24)
50	20.4	21.8	23.8	26.6	32.8	36.7	40.4	3161	12 / 20 (24)
70	22.0	23.4	25.4	28.2	34.4	38.2	42.2	3521	12 / 20 (24)
95	23.55	25.0	27.4	30.4	36.6	40.4	44.5	4096	12 / 20 (24)
120	25.06	26.5	28.9	31.9	38.1	41.8	46.1	4484	12 / 20 (24)
150	26.37	27.8	30.2	33.4	39.6	43.3	47.7	5003	12 / 20 (24)
185	28.05	29.5	31.9	35.1	42.7	46.5	51.3	5736	12 / 20 (24)
240	30.4	31.8	34.2	37.6	45.2	49.1	54.1	6700	12 / 20 (24)
300	32.8	34.2	36.6	40.0	47.8	51.8	57.1	7599	12 / 20 (24)
400	35.9	37.3	40.1	43.7	51.5	55.6	61.3	9022	12 / 20 (24)
500	40.0	41.4	44.3	48.1	56.1	60.4	66.7	10873	12 / 20 (24)
630	44.4	45.8	48.7	52.7	60.9	65.3	72.0	13021	12 / 20 (24)
25	26.3	27.7	30.1	33.3	39.5	43.2	47.6	4059	18 / 30 (36)
50	25.4	26.8	29.2	32.2	38.4	42.1	46.4	3991	18 / 30 (36)
70	27.0	28.4	30.8	34.0	41.6	45.4	50.1	4716	18 / 30 (36)
95	28.55	30.0	32.4	35.6	43.2	47.1	52.0	5159	18 / 30 (36)
120	30.06	31.5	33.9	37.3	44.9	48.8	53.8	5715	18 / 30 (36)
150	31.37	32.8	35.2	38.6	46.4	50.4	55.6	6179	18 / 30 (36)
185	33.05	34.5	36.9	40.5	48.3	52.3	57.7	6883	18 / 30 (36)
240	35.4	36.8	39.6	43.2	51.0	55.1	60.8	7819	18 / 30 (36)
300	37.8	39.2	42.0	45.8	53.8	58.0	64.0	8949	18 / 30 (36)
400	40.9	42.3	45.2	49.2	57.4	61.9	68.3	10451	18 / 30 (36)
500	45.0	46.4	49.7	53.9	62.1	66.6	73.5	12411	18 / 30 (36)

3 Cores



Cables for Oil Industry

Conductor Corss-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 Uo/ U(Um)
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	33.3	36.7	44.3	49.8	54.9	7023	3.6 / 6 (7.2)
35	13.3	14.7	35.5	38.9	46.5	51.9	57.2	7706	3.6 / 6 (7.2)
50	14.4	15.8	38.4	42.0	49.8	55.1	60.8	8791	3.6 / 6 (7.2)
70	16.0	17.4	41.9	45.7	53.7	58.9	64.9	10266	3.6 / 6 (7.2)
95	17.55	19.0	45.4	49.4	57.4	62.5	68.9	11899	3.6 / 6 (7.2)
120	19.06	20.5	48.7	52.9	61.1	66.1	72.9	13488	3.6 / 6 (7.2)
150	20.37	21.8	52.0	56.4	64.8	69.6	76.8	15239	3.6 / 6 (7.2)
185	22.05	23.5	55.7	60.3	70.0	74.7	82.4	18216	3.6 / 6 (7.2)
240	24.6	26.0	61.2	66.0	76.1	82.4	90.8	21863	3.6 / 6 (7.2)
300	27.4	28.8	67.8	73.0	84.5	89.7	99.0	25846	3.6 / 6 (7.2)
25	14.1	15.5	37.3	40.7	48.5	53.8	59.4	7908	6 / 10 (12)
35	15.1	16.5	39.9	43.5	51.3	56.6	62.4	8849	6 / 10 (12)
50	16.2	17.6	42.3	46.1	54.1	59.3	65.4	9917	6 / 10 (12)
70	17.8	19.2	45.8	49.8	58.0	63.1	69.6	11446	6 / 10 (12)
95	19.35	20.8	49.8	54.0	62.2	67.1	74.0	13219	6 / 10 (12)
120	20.86	22.3	53.1	57.5	65.9	70.7	78.0	14883	6 / 10 (12)
150	22.17	23.6	55.9	60.5	70.4	75.3	83.0	17476	6 / 10 (12)
185	23.85	25.3	59.7	64.5	74.4	80.5	88.8	19945	6 / 10 (12)
240	26.2	27.6	64.7	69.7	79.8	86.1	95.0	23225	6 / 10 (12)
300	28.6	30.0	70.4	75.8	87.3	92.6	102.2	27149	6 / 10 (12)
25	16.3	17.7	42.5	46.3	54.3	59.5	65.6	9448	8.7 / 15 (17.5)
35	17.3	18.7	44.7	48.7	56.7	61.8	68.2	10381	8.7 / 15 (17.5)
50	18.4	19.8	47.2	51.4	59.6	64.6	71.3	11511	8.7 / 15 (17.5)
70	20.0	21.4	51.1	55.3	63.5	68.4	75.4	12939	8.7 / 15 (17.5)
95	21.55	23.0	54.6	59.2	68.9	73.6	81.2	15778	8.7 / 15 (17.5)
120	23.06	24.5	57.9	62.7	72.6	78.8	86.9	17912	8.7 / 15 (17.5)
150	24.37	25.8	60.8	65.6	75.7	82.0	90.4	19497	8.7 / 15 (17.5)
185	26.05	27.5	64.5	69.5	79.6	85.9	94.8	21832	8.7 / 15 (17.5)
240	28.4	29.8	70.0	75.4	85.7	92.2	101.8	25665	8.7 / 15 (17.5)
35	19.3	20.7	49.5	53.7	61.9	66.8	73.7	11826	12 / 20 (24)
50	20.4	21.8	52.0	56.4	64.8	69.6	76.8	12972	12 / 20 (24)



Cables for Oil Industry

70	22.0	23.4	55.5	60.1	70.0	74.9	82.6	15578	12 / 20 (24)
95	23.55	25.0	59.0	63.8	73.7	79.8	88.1	17660	12 / 20 (24)
120	25.06	26.5	62.3	67.3	77.4	83.6	92.2	19610	12 / 20 (24)
150	26.37	27.8	65.6	70.8	80.9	87.2	96.2	21574	12 / 20 (24)
185	28.05	29.5	69.3	74.7	85.0	91.6	101.0	24082	12 / 20 (24)
50	25.4	26.8	63.0	68.0	78.1	84.5	93.2	18249	18 / 30 (36)
70	27.0	28.4	66.9	72.1	82.4	88.9	98.0	20382	18 / 30 (36)
95	28.55	30.0	70.4	75.8	86.3	92.8	102.4	22487	18 / 30 (36)

