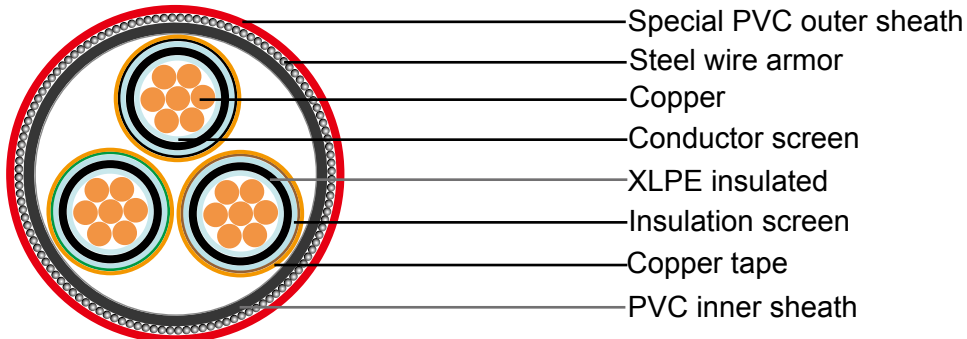




Medium Voltage XLPE Insulated Steel Wire Armored Cable to IEC 60502-2



XLPE Insulated 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: 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

Armor: Galvanized steel wires or aluminum 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



Cables for Oil Industry

1 Core

Conductor Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner 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)	(kg/km)	(kv)
25	12.3	13.7	17.7	21.5	31.5	34.8	1621	3.6 / 6 (7.2)
35	13.3	14.7	18.7	22.5	32.5	35.8	1781	3.6 / 6 (7.2)
50	14.4	15.8	19.8	23.6	33.6	37.0	1953	3.6 / 6 (7.2)
70	16.0	17.4	21.4	25.2	35.1	38.7	2247	3.6 / 6 (7.2)
95	17.55	19.0	23.0	26.8	36.7	40.4	2589	3.6 / 6 (7.2)
120	19.06	20.5	24.5	28.3	38.1	42.1	2904	3.6 / 6 (7.2)
150	20.37	21.8	25.8	29.6	39.4	43.4	3233	3.6 / 6 (7.2)
185	22.05	23.5	27.5	31.3	41.0	45.3	3681	3.6 / 6 (7.2)
240	24.6	26.0	30.0	33.8	43.5	47.9	4365	3.6 / 6 (7.2)
300	27.4	28.8	32.8	36.6	46.2	50.9	5121	3.6 / 6 (7.2)
400	30.9	32.3	36.3	40.1	49.6	54.7	6174	3.6 / 6 (7.2)
500	35.4	36.8	40.8	45.8	55.3	61.0	7735	3.6 / 6 (7.2)
630	39.8	41.2	45.3	50.3	60.0	66.2	9419	3.6 / 6 (7.2)
25	14.1	15.5	19.5	23.3	33.3	36.7	1764	6 / 10 (12)
35	15.1	16.5	20.5	24.3	34.2	37.8	1925	6 / 10 (12)
50	16.2	17.6	21.6	25.4	35.3	38.9	2107	6 / 10 (12)
70	17.8	19.2	23.2	27.0	36.9	40.7	2404	6 / 10 (12)
95	19.35	20.8	24.8	28.6	38.4	42.4	2748	6 / 10 (12)
120	20.86	22.3	26.3	30.1	39.9	44.0	3073	6 / 10 (12)
150	22.17	23.6	27.6	31.4	41.1	45.4	3405	6 / 10 (12)
185	23.85	25.3	29.3	33.1	42.8	47.2	3854	6 / 10 (12)
240	26.2	27.6	31.6	35.4	45.0	49.6	4531	6 / 10 (12)
300	28.6	30.0	34.0	37.8	47.3	52.2	5249	6 / 10 (12)
400	31.7	33.1	37.1	40.9	50.3	55.5	6267	6 / 10 (12)
500	35.8	37.2	41.2	46.2	55.7	61.4	7791	6 / 10 (12)
630	40.2	41.6	45.7	50.7	60.4	66.7	9464	6 / 10 (12)
25	16.3	17.7	21.7	25.5	35.4	39.1	1955	8.7 / 15 (17.5)
35	17.3	18.7	22.7	26.5	36.4	40.1	2112	8.7 / 15 (17.5)
50	18.4	19.8	23.8	27.6	37.4	41.3	2305	8.7 / 15 (17.5)
70	20.0	21.4	25.4	29.2	39.0	43.0	2608	8.7 / 15 (17.5)



Cables for Oil Industry

95	21.55	23.0	27.0	30.8	40.5	44.7	2950	8.7 / 15 (17.5)
120	23.06	24.5	28.5	32.3	42.0	46.3	3288	8.7 / 15 (17.5)
150	24.37	25.8	29.8	33.6	43.3	47.7	3623	8.7 / 15 (17.5)
185	26.05	27.5	31.5	35.3	44.9	49.5	4081	8.7 / 15 (17.5)
240	28.4	29.8	33.8	37.6	47.1	52.0	4756	8.7 / 15 (17.5)
300	30.8	32.2	36.2	40.0	49.5	54.6	5478	8.7 / 15 (17.5)
400	33.9	35.3	39.3	44.3	53.8	59.4	6738	8.7 / 15 (17.5)
500	38.0	39.4	43.4	48.4	58.0	64.0	8091	8.7 / 15 (17.5)
630	42.4	43.8	47.9	52.9	62.8	69.2	9793	8.7 / 15 (17.5)
35	19.3	20.7	24.7	28.5	38.3	42.3	2287	12 / 20 (24)
50	20.4	21.8	25.8	29.6	39.4	43.4	2485	12 / 20 (24)
70	22.0	23.4	27.4	31.2	40.9	45.2	2795	12 / 20 (24)
95	23.55	25.0	29.0	32.8	42.5	46.9	3139	12 / 20 (24)
120	25.06	26.5	30.5	34.3	43.9	48.5	3482	12 / 20 (24)
150	26.37	27.8	31.8	35.6	45.2	49.9	3824	12 / 20 (24)
185	28.05	29.5	33.5	37.3	46.9	51.7	4287	12 / 20 (24)
240	30.4	31.8	35.8	39.6	49.1	54.1	4974	12 / 20 (24)
300	32.8	34.2	38.2	42.0	51.6	56.9	5734	12 / 20 (24)
400	35.9	37.3	41.3	46.3	56.0	61.7	6994	12 / 20 (24)
500	40.0	41.4	45.5	50.5	60.2	66.4	8392	12 / 20 (24)
630	44.4	45.8	49.9	54.9	64.9	71.6	10119	12 / 20 (24)
25	26.3	27.7	31.7	35.5	45.1	49.8	2866	18 / 30 (36)
50	25.4	26.8	30.8	34.6	44.2	48.8	2969	18 / 30 (36)
70	27.0	28.4	32.4	36.2	45.8	50.5	3309	18 / 30 (36)
95	28.8	30.2	34.0	37.8	47.3	52.2	3660	18 / 30 (36)
120	30.06	31.5	35.5	39.3	48.8	53.8	4007	18 / 30 (36)
150	31.37	32.8	36.8	40.6	50.1	55.2	4354	18 / 30 (36)
185	33.05	34.5	38.5	43.5	53.1	58.5	5060	18 / 30 (36)
240	35.4	36.8	40.8	45.8	55.5	61.2	5801	18 / 30 (36)
300	37.8	39.2	43.2	48.2	58.0	64.0	6621	18 / 30 (36)
400	40.9	42.3	46.4	51.4	61.3	67.6	7701	18 / 30 (36)
500	45.0	46.4	50.5	55.5	65.5	72.2	9130	18 / 30 (36)

3 Cores



Cables for Oil Industry

Conductor Cross-section	Diameter over Insulation	Diameter over Screen	Diameter over Inner 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)	(kg/km)	(kv)
25	12.3	13.7	36.7	40.7	46.3	51.0	4418	3.6 / 6 (7.2)
35	13.3	14.7	38.9	42.9	48.4	53.4	4944	3.6 / 6 (7.2)
50	14.4	15.8	41.4	46.4	51.8	57.1	5995	3.6 / 6 (7.2)
70	16.0	17.4	44.9	49.9	55.2	60.9	7012	3.6 / 6 (7.2)
95	17.55	19.0	48.4	53.4	58.6	64.6	8226	3.6 / 6 (7.2)
120	19.06	20.5	51.7	56.7	61.8	68.2	9357	3.6 / 6 (7.2)
150	20.37	21.8	54.6	59.6	64.6	71.3	10528	3.6 / 6 (7.2)
185	22.05	23.5	58.3	63.3	68.2	75.2	12064	3.6 / 6 (7.2)
240	24.6	26.0	63.8	68.8	73.5	81.1	14480	3.6 / 6 (7.2)
300	27.4	28.8	70.0	77.5	82.4	90.8	18262	3.6 / 6 (7.2)
25	14.1	15.5	40.7	44.7	50.1	55.3	4961	6 / 10 (12)
35	15.1	16.5	42.9	47.9	53.3	58.7	5954	6 / 10 (12)
50	16.2	17.6	45.3	50.3	55.6	61.3	6634	6 / 10 (12)
70	17.8	19.2	48.8	53.8	59.0	65.1	7674	6 / 10 (12)
95	19.35	20.8	52.4	57.4	62.5	68.9	8913	6 / 10 (12)
120	20.86	22.3	55.7	60.7	65.7	72.4	10084	6 / 10 (12)
150	22.17	23.6	58.5	63.5	68.4	75.4	11273	6 / 10 (12)
185	23.85	25.3	62.3	67.3	72.1	79.5	12828	6 / 10 (12)
240	26.2	27.6	67.3	73.6	79.5	87.7	16365	6 / 10 (12)
300	28.6	30.0	72.6	80.1	84.9	93.6	18919	6 / 10 (12)
25	16.3	17.7	45.5	50.5	55.8	61.5	6149	8.7 / 15 (17.5)
35	17.3	18.7	47.7	52.7	57.9	63.9	6755	8.7 / 15 (17.5)
50	18.4	19.8	50.2	55.2	60.3	66.6	7457	8.7 / 15 (17.5)
70	20.0	21.4	53.7	58.7	63.7	70.3	8532	8.7 / 15 (17.5)
95	21.55	23.0	57.2	62.2	67.1	74.0	9805	8.7 / 15 (17.5)
120	23.06	24.5	60.5	65.5	70.3	77.6	11004	8.7 / 15 (17.5)
150	24.37	25.8	63.4	68.4	73.1	80.7	12217	8.7 / 15 (17.5)
185	26.05	27.5	67.1	73.4	79.3	87.5	14993	8.7 / 15 (17.5)
240	28.4	29.8	72.2	78.5	84.7	93.4	17580	8.7 / 15 (17.5)
300	30.8	32.2	77.4	83.7	89.9	99.2	20280	8.7 / 15 (17.5)
35	19.3	20.7	52.1	57.1	62.2	68.6	7537	12 / 20 (24)



Cables for Oil Industry

50	20.4	21.8	54.6	59.6	64.6	71.3	8261	12 / 20 (24)
70	22.0	23.4	58.1	63.1	68.0	75.0	9373	12 / 20 (24)
95	23.55	25.0	61.6	66.6	71.4	78.8	10627	12 / 20 (24)
120	25.06	26.5	64.9	69.9	74.6	82.3	11895	12 / 20 (24)
150	26.37	27.8	67.8	74.1	80.0	88.3	14306	12 / 20 (24)
185	28.05	29.5	71.5	77.8	83.8	92.4	16021	12 / 20 (24)
240	30.4	31.8	76.6	82.9	89.1	98.3	18645	12 / 20 (24)
50	25.4	26.8	65.6	71.9	77.9	85.9	11491	18 / 30 (36)
70	27.0	28.4	69.1	75.4	81.5	89.9	12878	18 / 30 (36)
95	28.55	30.0	72.6	78.9	85.1	93.8	14252	18 / 30 (36)
120	30.06	31.5	75.9	82.2	88.5	97.6	15708	18 / 30 (36)
150	31.37	32.8	78.8	85.1	91.5	100.9	17092	18 / 30 (36)
185	33.05	34.5	82.5	88.8	95.3	105.1	18901	18 / 30 (36)
240	35.4	36.8	87.6	95.1	101.0	111.0	21499	18 / 30 (36)

