Medium Voltage XLPE Insulated Cable to IEC 60502-2

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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

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	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage Uo/ U(Um)
(mm^2)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	24.0	26.4	972	3.6 / 6 (7.2)

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35	13.3	14.7	24.9	27.5	1105	3.6 / 6 (7.2)
50	14.4	15.8	26.0	28.7	1257	3.6 / 6 (7.2)
70	16.0	17.4	27.5	30.4	1509	3.6 / 6 (7.2)
95	17.55	19.0	29.1	32.1	1808	3.6 / 6 (7.2)
120	19.06	20.5	30.6	33.7	2092	3.6 / 6 (7.2)
150	20.37	21.8	31.8	35.1	2391	3.6 / 6 (7.2)
185	22.05	23.5	33.5	36.9	2796	3.6 / 6 (7.2)
240	24.6	26.0	35.9	39.6	3420	3.6 / 6 (7.2)
300	27.4	28.8	38.6	42.6	4104	3.6 / 6 (7.2)
400	30.9	32.3	42.0	46.3	5079	3.6 / 6 (7.2)
500	35.4	36.8	46.4	51.1	6284	3.6 / 6 (7.2)
630	39.8	41.2	50.9	56.2	7796	3.6 / 6 (7.2)
25	14.1	15.5	25.7	28.4	1071	6 / 10 (12)
35	15.1	16.5	26.7	29.4	1204	6 / 10 (12)
50	16.2	17.6	27.7	30.6	1367	6 / 10 (12)
70	17.8	19.2	29.3	32.3	1622	6 / 10 (12)
95	19.35	20.8	30.8	34.0	1924	6 / 10 (12)
120	20.86	22.3	32.3	35.6	2217	6 / 10 (12)
150	22.17	23.6	33.6	37.0	2519	6 / 10 (12)
185	23.85	25.3	35.2	38.8	2924	6 / 10 (12)
240	26.2	27.6	37.4	41.3	3543	6 / 10 (12)
300	28.6	30.0	39.8	43.9	4202	6 / 10 (12)
400	31.7	33.1	42.8	47.2	5146	6 / 10 (12)
500	35.8	37.2	46.8	51.6	6321	6 / 10 (12)
630	40.2	41.6	51.3	56.6	7837	6 / 10 (12)
25	16.3	17.7	27.8	30.7	1205	8.7 / 15 (17.5)
35	17.3	18.7	28.8	31.8	1343	8.7 / 15 (17.5)
50	18.4	19.8	29.9	33.0	1509	8.7 / 15 (17.5)
70	20.0	21.4	31.4	34.7	1770	8.7 / 15 (17.5)
95	21.55	23.0	33.0	36.4	2078	8.7 / 15 (17.5)
120	23.06	24.5	34.4	38.0	2375	8.7 / 15 (17.5)
150	24.37	25.8	35.7	39.4	2680	8.7 / 15 (17.5)
185	26.05	27.5	37.3	41.2	3094	8.7 / 15 (17.5)
240	28.4	29.8	39.6	43.7	3720	8.7 / 15 (17.5)
300	30.8	32.2	41.9	46.2	4383	8.7 / 15 (17.5)
400	33.9	35.3	44.9	49.5	5332	8.7 / 15 (17.5)
500	38.0	39.4	48.9	53.9	6523	8.7 / 15 (17.5)

630	42.4	43.8	53.4	59.0	8064	8.7 / 15 (17.5)
35	19.3	20.7	30.7	33.9	1473	12 / 20 (24)
50	20.4	21.8	31.8	35.1	1643	12 / 20 (24)
70	22.0	23.4	33.4	36.8	1910	12 / 20 (24)
95	23.55	25.0	34.9	38.5	2221	12 / 20 (24)
120	25.06	26.5	36.4	40.1	2523	12 / 20 (24)
150	26.37	27.8	37.6	41.5	2834	12 / 20 (24)
185	28.05	29.5	39.3	43.3	3254	12 / 20 (24)
240	30.4	31.8	41.5	45.8	3883	12 / 20 (24)
300	32.8	34.2	43.8	48.4	4558	12 / 20 (24)
400	35.9	37.3	46.9	51.7	5494	12 / 20 (24)
500	40.0	41.4	51.1	56.4	6767	12 / 20 (24)
630	44.4	45.8	55.6	61.3	8318	12 / 20 (24)
25	26.3	27.7	37.5	41.4	1910	18 / 30 (36)
50	25.4	26.8	36.7	40.4	2007	18 / 30 (36)
70	27.0	28.4	38.2	42.2	2305	18 / 30 (36)
95	28.55	30.0	39.8	43.9	2613	18 / 30 (36)
120	30.06	31.5	41.2	45.5	2928	18 / 30 (36)
150	31.37	32.8	42.5	46.9	3245	18 / 30 (36)
185	33.05	34.5	44.1	48.7	3678	18 / 30 (36)
240	35.4	36.8	46.4	51.1	4322	18 / 30 (36)
300	37.8	39.2	48.9	53.9	5066	18 / 30 (36)
400	40.9	42.3	52.2	57.6	6046	18 / 30 (36)
500	45.0	46.4	56.4	62.2	7351	18 / 30 (36)

3 Cores

Conductor Corss-section	Diameter over Insulation	Diameter over Screen	Min. O.D.	Max. O.D.	Approx. Weight	Rated Voltage Uo/ U(Um)
(mm^2)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(kv)
25	12.3	13.7	34.9	38.5	2135	3.6 / 6 (7.2)
35	13.3	14.7	37.0	40.8	2544	3.6 / 6 (7.2)
50	14.4	15.8	39.3	43.4	3021	3.6 / 6 (7.2)
70	16.0	17.4	43.0	47.4	3837	3.6 / 6 (7.2)
95	17.55	19.0	46.6	51.4	4815	3.6 / 6 (7.2)
120	19.06	20.5	50.0	55.1	5755	3.6 / 6 (7.2)
150	20.37	21.8	52.9	58.4	6745	3.6 / 6 (7.2)
185	22.05	23.5	56.7	62.6	8090	3.6 / 6 (7.2)
240	24.6	26.0	62.5	68.9	10206	3.6 / 6 (7.2)

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300	27.4	28.8	68.8	75.9	12485	3.6 / 6 (7.2)
25	14.1	15.5	38.7	42.7	2452	6 / 10 (12)
35	15.1	16.5	40.8	45.0	2873	6 / 10 (12)
50	16.2	17.6	43.4	47.9	3412	6 / 10 (12)
70	17.8	19.2	47.0	51.8	4255	6 / 10 (12)
95	19.35	20.8	50.6	55.8	5259	6 / 10 (12)
120	20.86	22.3	54.0	59.6	6243	6 / 10 (12)
150	22.17	23.6	57.0	62.8	7257	6 / 10 (12)
185	23.85	25.3	60.8	67.0	8624	6 / 10 (12)
240	26.2	27.6	66.1	72.9	10736	6 / 10 (12)
300	28.6	30.0	71.4	78.8	12978	6 / 10 (12)
25	16.3	17.7	43.6	48.1	2924	8.7 / 15 (17.5)
35	17.3	18.7	45.9	50.7	3395	8.7 / 15 (17.5)
50	18.4	19.8	48.3	53.2	3935	8.7 / 15 (17.5)
70	20.0	21.4	51.9	57.2	4817	8.7 / 15 (17.5)
95	21.55	23.0	55.7	61.4	5889	8.7 / 15 (17.5)
120	23.06	24.5	59.1	65.2	6907	8.7 / 15 (17.5)
150	24.37	25.8	62.0	68.4	7949	8.7 / 15 (17.5)
185	26.05	27.5	65.9	72.7	9367	8.7 / 15 (17.5)
240	28.4	29.8	71.2	78.5	11535	8.7 / 15 (17.5)
300	30.8	32.2	76.5	84.4	13822	8.7 / 15 (17.5)
35	19.3	20.7	50.4	55.6	3888	12 / 20 (24)
50	20.4	21.8	52.9	58.4	4479	12 / 20 (24)
70	22.0	23.4	56.5	62.4	5403	12 / 20 (24)
95	23.55	25.0	60.1	66.3	6474	12 / 20 (24)
120	25.06	26.5	63.5	70.1	7525	12 / 20 (24)
150	26.37	27.8	66.5	73.4	8604	12 / 20 (24)
185	28.05	29.5	70.3	77.6	10059	12 / 20 (24)
240	30.4	31.8	75.6	83.4	12264	12 / 20 (24)
50	25.4	26.8	64.4	71.0	6018	18 / 30 (36)
70	27.0	28.4	68.0	75.0	7084	18 / 30 (36)
95	28.55	30.0	71.6	79.0	8200	18 / 30 (36)
120	30.06	31.5	75.0	82.7	9339	18 / 30 (36)
150	31.37	32.8	77.9	86.0	10476	18 / 30 (36)
185	33.05	34.5	81.8	90.2	12024	18 / 30 (36)
240	35.4	36.8	87.1	96.0	14351	18 / 30 (36)