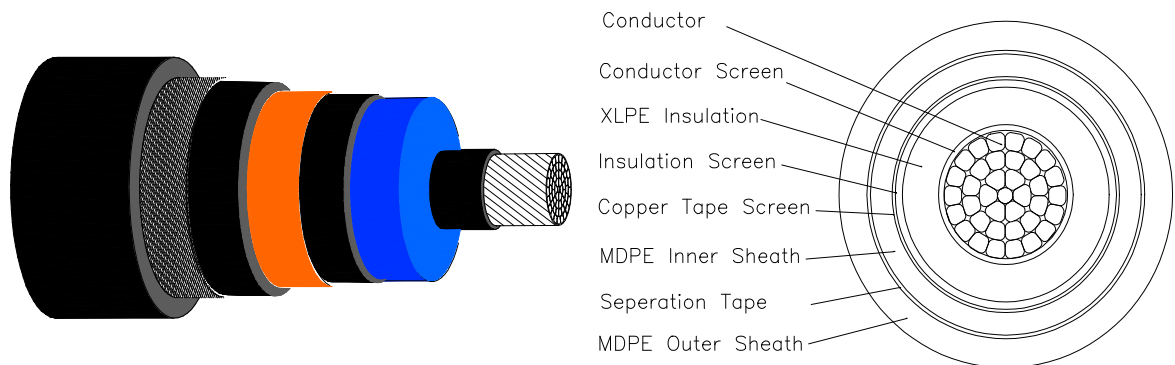


SINGLE CORE -- XLPE INSULATED UNARMoured PE INNER AND OUTER SHEATH CABLE FOR VOLTAGES 6.35 / 11 (12) KV AND 12.7 / 22 (24) KV



DESCRIPTION

Circular compacted stranded aluminium conductor, XLPE insulated, with copper tape screened, extruded with PE inner sheath and followed by an extruded PE outer sheath. Complies with Tenaga Nasional Berhad (TNB) specification.

CONSTRUCTION

- 1 **Conductor**
Plain circular compacted stranded aluminium conductor to IEC 60228 class 2.
- 2 **Conductor screen**
Extruded layer of semiconductive compound.
- 3 **Insulation**
XLPE (cross-linked polyethylene) rated at 90°C.
Insulation screen
- 4a. **Non-metallic part**
Extruded layer of semiconductive compound.
- 4b. **Metallic part**
Copper tape screen (SCT).
- 5 **Inner sheath**
MDPE types ST₇ to IEC 60502 colour black.
- 6 **Outer sheath**
MDPE types ST₇ to IEC 60502 colour black, containing an effective termite repellent.

APPLICATIONS

These cables are generally suitable for direct burial or for installation on trays or ducts.

SINGLE CORE -- XLPE INSULATED UNARMoured PE INNER AND OUTER SHEATH CABLE

XLPE / SCT / MDPE / MDPE / AL CABLE (WITH COPPER TAPE SCREENED)

6.35 / 11 (12) kV

Nominal cross-sectional area of conductor	Nominal diameter of conductor	Nominal thickness of XLPE insulation	Metallic Screening	Nominal thickness of PE inner sheath	Nominal thickness of PE outer sheath	Approx. overall diameter of cable	Approximate weight of cable
			Approx. thickness of copper tape				Aluminium
mm ²	mm	mm	mm	mm	mm	mm	Kg / Km
16	4.6	3.4	0.2	2.5	1.8	24	558
25	5.8	3.4	0.2	2.5	1.8	25	629
35	7.0	3.4	0.2	2.5	1.8	26	695
50	8.1	3.4	0.2	2.5	1.8	27	772
70	9.7	3.4	0.2	2.5	1.8	29	891
95	11.5	3.4	0.2	2.5	1.8	30	1029
120	12.9	3.4	0.2	2.5	1.8	32	1151
150	14.3	3.4	0.2	2.5	1.9	33	1289
185	16.1	3.4	0.2	2.5	1.9	35	1458
240	18.4	3.4	0.2	2.5	2.0	38	1722
300	20.6	3.4	0.2	2.5	2.1	40	1991
400	23.3	3.4	0.2	2.5	2.2	43	2346
500	26.2	3.4	0.2	2.5	2.3	46	2755
630	29.8	3.4	0.2	2.5	2.4	51	3332
800	33.7	3.4	0.2	2.5	2.5	55	3995

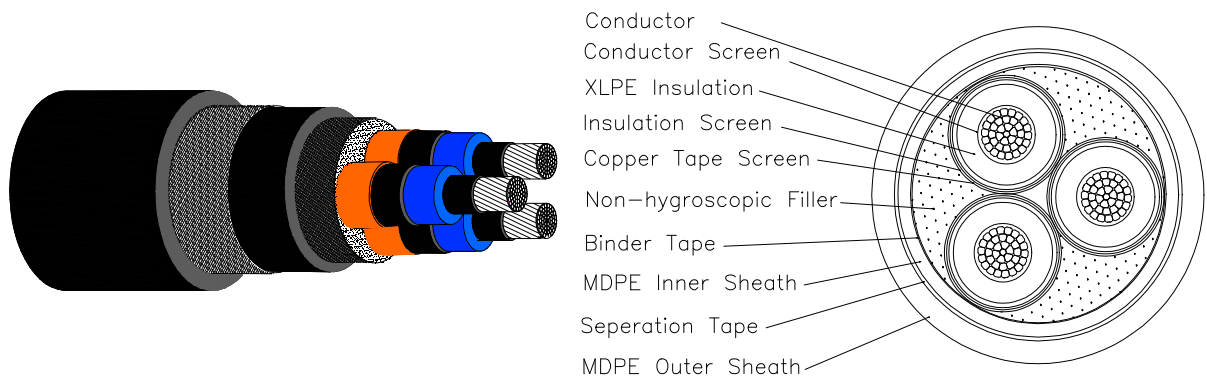
SINGLE CORE -- XLPE INSULATED UNARMoured PE INNER AND OUTER SHEATH CABLE

XLPE / SCT / MDPE / MDPE / AL CABLE (WITH COPPER TAPE SCREENED)

12.7 / 22 (24) kV

Nominal cross-sectional area of conductor	Nominal diameter of conductor	Nominal thickness of XLPE insulation	Metallic Screening	Nominal thickness of PE inner sheath	Nominal thickness of PE outer sheath	Approx. overall diameter of cable	Approximate weight of cable
			Approx. thickness of copper tape				Aluminium
mm ²	mm	mm	mm	mm	mm	mm	Kg / Km
16	4.6	5.5	0.2	2.5	1.8	28	749
25	5.8	5.5	0.2	2.5	1.8	29	827
35	7.0	5.5	0.2	2.5	1.8	30	900
50	8.1	5.5	0.2	2.5	1.8	31	983
70	9.7	5.5	0.2	2.5	1.9	33	1123
95	11.5	5.5	0.2	2.5	1.9	35	1272
120	12.9	5.5	0.2	2.5	2.0	36	1414
150	14.3	5.5	0.2	2.5	2.0	38	1551
185	16.1	5.5	0.2	2.5	2.1	40	1743
240	18.4	5.5	0.2	2.5	2.2	42	2025
300	20.6	5.5	0.2	2.5	2.2	45	2297
400	23.3	5.5	0.2	2.5	2.3	47	2670
500	26.2	5.5	0.2	2.5	2.4	51	3099
630	29.8	5.5	0.2	2.5	2.5	55	3704
800	33.7	5.5	0.2	2.5	2.7	59	4411

THREE CORES -- XLPE INSULATED UNARMoured PE INNER AND OUTER SHEATH CABLE FOR VOLTAGE 6.35 / 11 (12) KV



DESCRIPTION

Circular compacted stranded aluminium conductor, XLPE insulated, with copper tape screened, three cores assembled together with non-hygroscopic polypropylene fillers, extruded with PE inner sheath and followed by an extruded PE outer sheath. Complies with Tenaga Nasional Berhad (TNB) specification.

CONSTRUCTION

1 **Conductor**

Plain circular compacted stranded aluminium conductor to IEC 60228 class 2.

2 **Conductor screen**

Extruded layer of semiconductive compound.

3 **Insulation**

XLPE (cross-linked polyethylene) rated at 90°C.

Insulation screen

4a. **Non-metallic part**

Extruded layer of semiconductive compound.

4b. **Metallic part**

Copper tape screen (SCT).

5 **Colour for core identification**

Red, yellow and blue tapes shall be applied between non metallic and metallic part of insulation screen.

6 **Assembly**

Three screened cores are laid up together, if necessary filled with non-hygroscopic material compatible with insulation and inner sheath.

7 **Inner sheath**

MDPE types ST₇ to IEC 60502 colour black.

8 **Outer sheath**

MDPE types ST₇ to IEC 60502 colour black, containing an effective termite repellent.

APPLICATIONS

These cables are generally suitable for direct burial or for installation on trays or ducts.

THREE CORE -- XLPE INSULATED UNARMoured PE INNER AND OUTER SHEATH CABLE

XLPE / SCT / MDPE / MDPE / AL CABLE (WITH COPPER TAPE SCREENED)

6.35 / 11 (12) kV

Nominal cross-sectional area of conductor	Nominal diameter of conductor	Nominal thickness of XLPE insulation	Metallic Screening	Nominal thickness of PE inner sheath	Nominal thickness of PE outer sheath	Approx. overall diameter of cable	Approximate weight of cable
			Approx. thickness of copper tape				Aluminium
mm ²	mm	mm	mm	mm	mm	mm	Kg / Km
16	4.6	3.4	0.2	2.5	2.2	41	1543
25	5.8	3.4	0.2	2.5	2.2	43	1771
35	7.0	3.4	0.2	2.5	2.3	46	2001
50	8.1	3.4	0.2	2.5	2.4	48	2264
70	9.7	3.4	0.2	2.5	2.5	52	2673
95	11.5	3.4	0.2	2.5	2.7	56	3163
120	12.9	3.4	0.2	2.5	2.8	60	3586
150	14.3	3.4	0.2	2.5	2.9	63	4035
185	16.1	3.4	0.2	2.5	3.0	67	4619
240	18.4	3.4	0.2	2.5	3.1	72	5512
300	20.6	3.4	0.2	2.5	3.3	77	6398
400	23.3	3.4	0.2	2.5	3.6	84	7624