

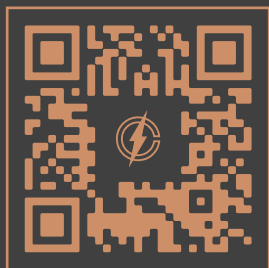


SOUTHERN CABLE

Design with specification,
manufacture with integrity.



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**DESIGN FOR
HIGH POWER
TRANSMISSION**

SOUTHERNCABLE.COM.MY

MEDIUM & HIGH VOLTAGE CABLE



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MEDIUM VOLTAGE CABLE

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MEDIUM & HIGH VOLTAGE CABLE (TNB SPEC)

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MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

3.6/6(7.2)KV OR 3.8/6.6(7.2)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

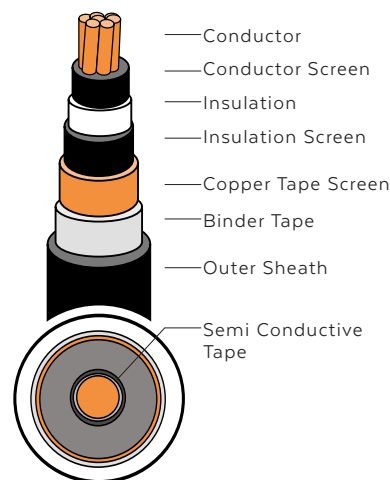
CABLE DESCRIPTION

Copper or Aluminium Conductor, XLPE Insulated, Copper
Tape Screened Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation,
directly in the ground or in cable ducts, as part of
power distribution networks, transformer stations,
switching blocks and power plants, including in
the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on
your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	2.5	1.8	20.7	788	484
	70	9.74			22.3	1,022	582
	95	11.46			24.0	1,306	696
	120	12.93			25.5	1,586	805
	150	14.33			26.9	1,911	927
	185	16.05	2.6	1.9	28.8	2,258	1,070
	240	18.43		1.95	31.6	2,845	1,304
	300	20.64	2.8	2.1	34.6	3,552	1,594
	400	23.34	3.0	2.2	38.2	4,469	1,964
	500	26.21	3.2	2.3	41.3	5,506	2,348
	630	29.80		2.4	44.5	6,977	2,869

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

**THERMAL RESISTIVITY OF
EARTHWARE DUCT** 1.2 K.m/W

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

6/10(12)KV OR 6.35/11(12)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

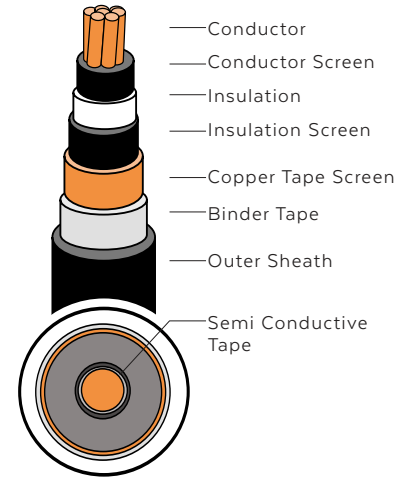
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	3.4	1.8	22.4	852	547
	70	9.74			24.0	1089	649
	95	11.46			25.7	1379	769
	120	12.93			27.2	1662	881
	150	14.33		1.9	28.8	2004	1020
	185	16.05		2.0	30.6	2350	1162
	240	18.43			33.1	2929	1388
	300	20.64		2.1	35.5	3606	1647
	400	23.34		2.2	38.4	4483	1978
	500	26.21		2.3	41.5	5521	2364
	630	29.80		2.4	44.7	6994	2885

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

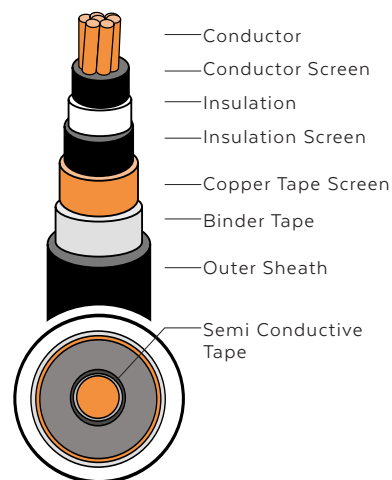
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	4.5	1.8	24.6	2,217	1,304
	70	9.74			26.2	3,754	1,994
	95	11.46		1.9	28.0	5,989	2,939
	120	12.93			29.6	8,739	4,058
	150	14.33		2.0	31.1	12,346	5,461
	185	16.05			33.0	16,632	7,129
	240	18.43		2.1	35.5	23,577	9,710
	300	20.64		2.2	37.9	32,508	12,924
	400	23.34		2.3	40.8	44,829	17,275
	500	26.21		2.4	43.8	60,671	22,776
	630	29.80		2.5	47.0	84,061	30,651

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

12/20(24)KV OR 12.7/22(24)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

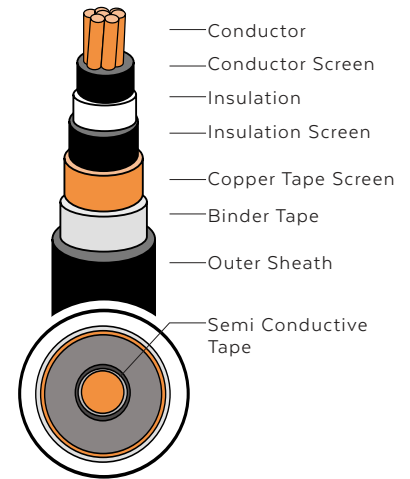
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 – 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	5.5	1.8	26.6	1,031	727
	70	9.74		1.9	28.3	1,287	847
	95	11.46			30.2	1,596	987
	120	12.93		2.0	31.8	1,897	1,117
	150	14.33			33.3	2,244	1,260
	185	16.05		2.1	35.1	2,605	1,417
	240	18.43		2.2	37.6	3,208	1,667
	300	20.64			40.0	3,898	1,939
	400	23.34		2.3	42.9	4,796	2,291
	500	26.21		2.4	46.0	5,856	2,698
	630	29.80		2.5	49.2	7,353	3,244

SHAPE OF CONDUCTOR

50 – 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

18/30(33)KV OR 19/33(36)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

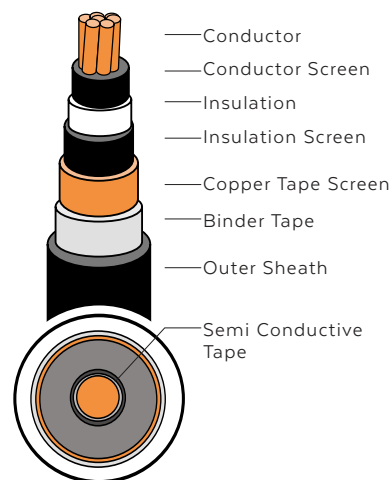
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	8.0	2.0	33.9	1401	1097
	70	9.74		2.1	35.6	1678	1238
	95	11.46		2.2	37.5	2009	1399
	120	12.93			39.0	2329	1548
	150	14.33		2.3	40.5	2693	1709
	185	16.05			42.4	3076	1888
	240	18.43		2.4	44.9	3708	2168
	300	20.64		2.5	47.3	4427	2468
	400	23.34		2.6	50.2	5359	2854
	500	26.21		2.7	53.2	6456	3298
	630	29.80		2.8	56.5	7990	3882

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

3.6/6(7.2)KV OR 3.8/6.6(7.2)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

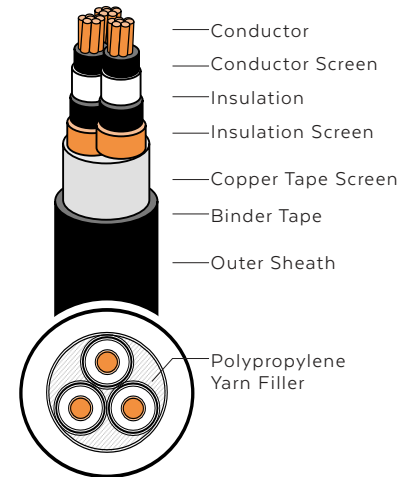
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE

3 Core x (50 - 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	2.5	2.3	40.8	2295	1382
	70	9.74		2.4	44.5	3012	1692
	95	11.46		2.5	48.4	3886	2056
	120	12.93		2.7	51.9	4759	2419
	150	14.33		2.8	55.1	5762	2811
	185	16.05		2.9	59.1	6809	3246
	240	18.43	2.6	3.1	65.3	8615	3993
	300	20.64	2.8	3.3	71.5	10740	4865
	400	23.34	3.0	3.6	79.3	13542	6027

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 - 400 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

90°C
30°C
20°C
0.8m
1.5 K.m/W
1.2 K.m/W
1.2 K.m/W

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

6/10(12)KV OR 6.35/11(12)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

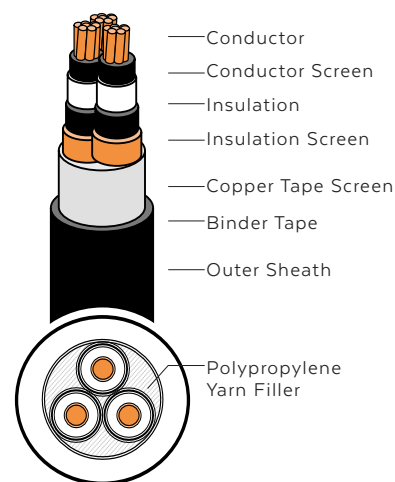
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE

3 Core x (50 – 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	3.4	2.4	44.6	2,501	1,588
	70	9.74		2.5	48.4	3,235	1,915
	95	11.46		2.7	52.4	4,139	2,309
	120	12.93		2.8	55.7	5,015	2,675
	150	14.33		2.9	58.9	6,033	3,082
	185	16.05		3.0	63.0	7,098	3,534
	240	18.43		3.2	68.4	8,864	4,242
	300	20.64		3.3	73.4	10,903	5,028
	400	23.34		3.6	79.8	13,585	6,070

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 – 400 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

8.7/15(17.5)KV

CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

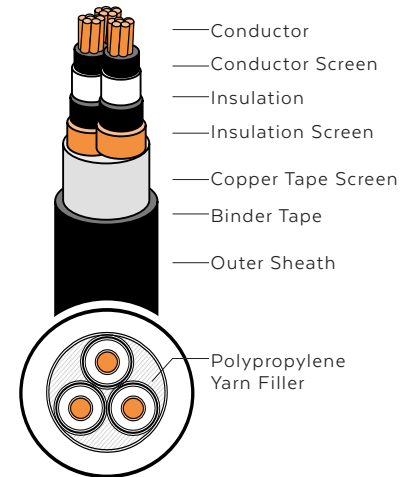
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE

3 Core x (50 - 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	4.5	2.6	49.7	2,798	1,885
	70	9.74		2.7	53.5	3,559	2,239
	95	11.46		2.8	57.4	4,481	2,651
	120	12.93		2.9	60.8	5,381	3,040
	150	14.33		3.0	64.1	6,419	3,468
	185	16.05		3.2	68.0	7,501	3,938
	240	18.43		3.3	73.5	9,310	4,687
	300	20.64		3.5	78.6	11,385	5,510
	400	23.34		3.7	84.8	14,087	6,572

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 - 400 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

90°C
30°C
20°C
0.8m
1.5 K.m/W
1.2 K.m/W
1.2 K.m/W

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

12/20(24)KV OR 12.7/22(24)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

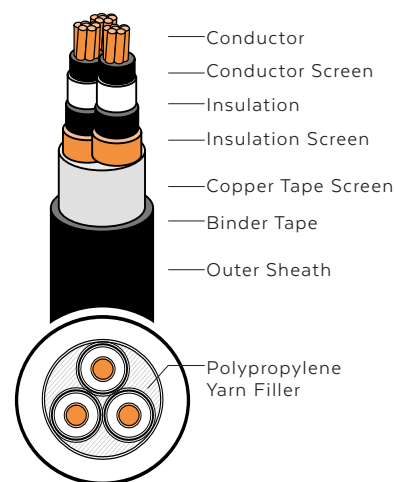
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE

3 Core x (50 – 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	5.5	2.7	54.3	3,095	2,182
	70	9.74		2.8	58.1	3,876	2,556
	95	11.46		3.0	62.0	4,820	2,990
	120	12.93		3.1	65.4	5,737	3,396
	150	14.33		3.2	68.7	6,792	3,841
	185	16.05		3.3	72.6	7,896	4,332
	240	18.43		3.5	78.1	9,734	5,111
	300	20.64		3.7	83.2	11,836	5,961
	400	23.34		3.9	89.4	14,571	7,056

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 – 400 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, PVC SHEATHED CABLE

18/30(33)KV OR 19/33(36)KV
CU / XLPE / CTS / PVC OR
AL / XLPE / CTS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

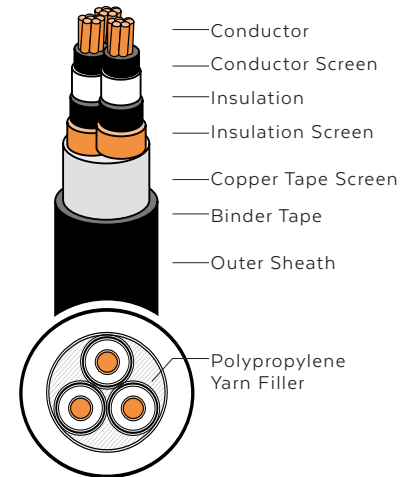
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Non-Armoured, PVC Sheathed Cables - 3 Core

CABLE SIZES RANGE

3 Core x (50 - 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	8.0	3.2	70.0	4,288	2,182
	70	9.74		3.3	73.8	5,137	2,556
	95	11.46		3.5	77.7	6,153	2,990
	120	12.93		3.6	81.1	7,132	3,396
	150	14.33		3.7	84.3	8,246	3,841
	185	16.05		3.8	88.3	9,421	4,332
	240	18.43		4.0	93.8	11,359	5,111
	300	20.64		4.2	98.9	13,553	5,961
	400	23.34		4.4	105.1	16,402	7,056

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 - 400 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED CABLE

3.6/6(7.2)KV OR 3.8/6.6(7.2)KV
CU / XLPE / CWS / PVC OR
AL / XLPE / CWS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

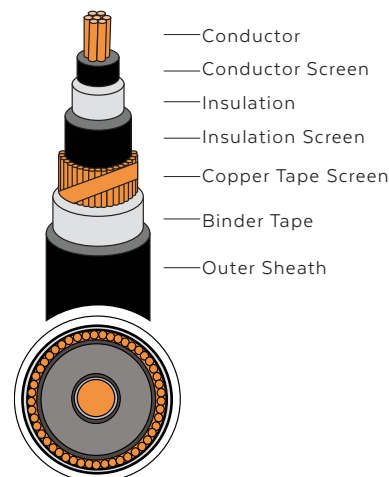
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Wire Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Copper Wire Screen Cross Sectional Area	Nominal Outer-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm ²	mm	mm	kg/km	kg/km
1	50	8.10	2.5	16	1.8	25.3	1007	703
	70	9.74				27.1	1250	810
	95	11.46			1.9	28.9	1545	935
	120	12.93				30.5	1834	1054
	150	14.33		25	2.0	32.0	2254	1270
	185	16.05				33.8	2601	1413
	240	18.43	2.6		2.1	36.7	3202	1661
	300	20.64	2.8		2.2	39.6	3908	1950
	400	23.34	3.0	35	2.3	43.2	4932	2428
	500	26.21	3.2		2.4	46.3	5978	2820
	630	29.80			2.6	49.5	7458	3350

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED CABLE

6/10(12)KV OR 6.35/11(12)KV
CU / XLPE / CWS / PVC OR
AL / XLPE / CWS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

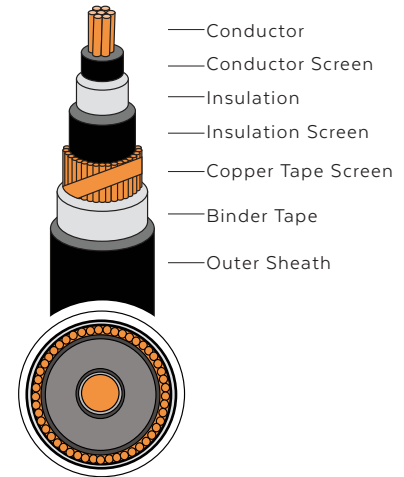
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Wire Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Copper Wire Screen Cross Sectional Area	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm ²	mm	mm	kg/km	kg/km
1	50	8.10	3.4	16	1.8	26.5	1,066	762
	70	9.74			1.9	28.2	1,313	873
	95	11.46				30.0	1,613	1,003
	120	12.93			2.0	31.6	1,906	1,126
	150	14.33		33.1		2,330	1,347	
	185	16.05		25	2.1	35.0	2,682	1,494
	240	18.43			2.2	37.5	3,272	1,731
	300	20.64			2.3	39.9	3,950	1,992
	400	23.34		42.8		4,928	2,423	
	500	26.21		35	2.4	45.8	5,973	2,815
	630	29.80			2.6	49.0	7,453	3,345

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CWS / PVC OR
AL / XLPE / CWS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

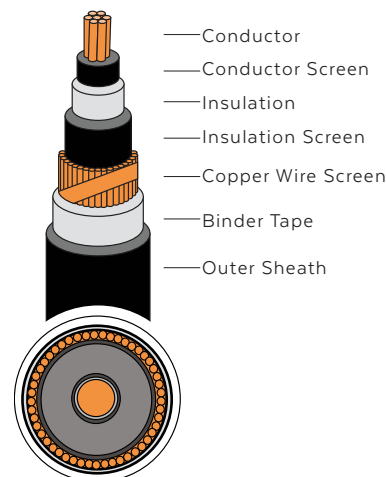
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Wire Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Copper Wire Screen Cross Sectional Area	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm ²	mm	mm	kg/km	kg/km
1	50	8.10	4.5	16	1.9	28.7	1,159	855
	70	9.74				30.4	1,404	964
	95	11.46			2.0	32.3	1,716	1,106
	120	12.93				33.9	2,007	1,226
	150	14.33		25	2.1	35.4	2,444	1,460
	185	16.05				37.2	2,809	1,621
	240	18.43			2.2	39.7	3,392	1,852
	300	20.64				42.1	4,083	2,124
	400	23.34		35	2.3	45.0	5,071	2,567
	500	26.21				48.1	6,127	2,969
	630	29.80			2.4	51.3	7,617	3,509

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED CABLE

12/20(24)KV OR 12.7/22(24)KV
CU / XLPE / CWS / PVC OR
AL / XLPE / CWS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

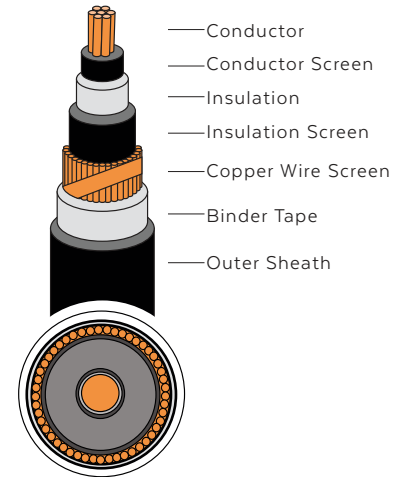
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Wire Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Copper Wire Screen Cross Sectional Area	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm ²	mm	mm	kg/km	kg/km
1	50	8.10	5.5	16	2.0	30.9	1,154	850
	70	9.74				32.6	1,404	964
	95	11.46			2.1	34.5	1,707	1,097
	120	12.93				36.0	2,003	1,222
	150	14.33		25	2.2	37.5	2,429	1,445
	185	16.05				39.4	2,783	1,595
	240	18.43			2.3	41.9	3,374	1,833
	300	20.64			2.4	44.3	4,054	2,096
	400	23.34		35	2.5	47.2	5,032	2,528
	500	26.21				50.2	6,077	2,920
	630	29.80			2.7	53.5	7,557	3,448

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED, PVC SHEATHED CABLE

18/30(33)KV OR 19/33(36)KV
CU / XLPE / CWS / PVC
AL / XLPE / CWS / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

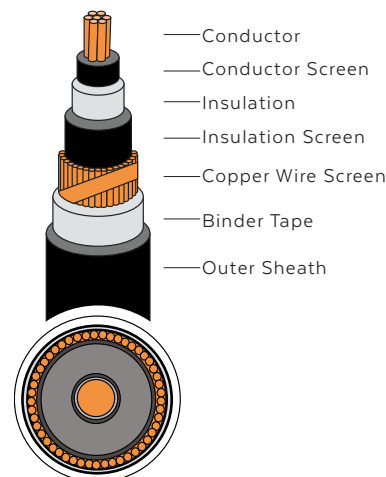
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Wire Screened
Non-Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Copper Wire Screen Cross Sectional Area	Nominal Outer-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm ²	mm	mm	kg/km	kg/km
1	50	8.10	8.0	16	2.2	38.5	1,666	1,362
	70	9.74			2.3	40.3	1,947	1,507
	95	11.46				42.1	2,283	1,673
	120	12.93			2.4	43.7	2,606	1,826
	150	14.33		45.2		3,059	2,076	
	185	16.05		2.5	47.0	3,447	2,259	
	240	18.43		2.6	49.6	4,085	2,545	
	300	20.64			51.9	4,810	2,851	
	400	23.34		35	2.7	54.8	5,843	3,338
	500	26.21			2.8	57.9	6,948	3,790
	630	29.80			2.9	61.1	8,491	4,382

ELECTRICAL DATA

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF EARTHWARE DUCT 1.2 K.m/W

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

3.6/6(7.2)KV OR 3.8/6.6(7.2)KV
CU / XLPE / CTS / AWA / PVC OR
AL / XLPE / CTS / AWA / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

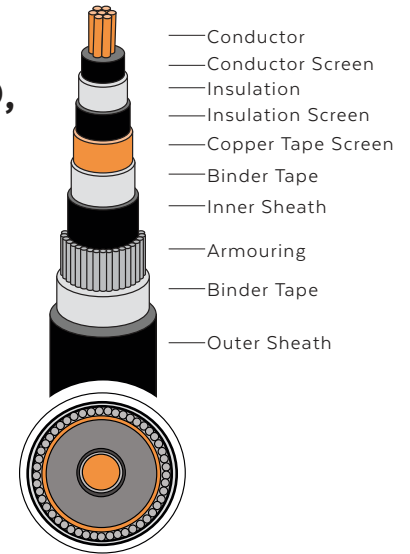
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Aluminium Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	2.5	1.0	18.5	1.6	1.8	25.9	1,125	821
	70	9.74			20.2		1.9	27.6	1,389	949
	95	11.46			21.9			29.4	1,707	1,097
	120	12.93			23.4		2.0	31.0	2,016	1,236
	150	14.33			24.8			32.5	2,371	1,387
	185	16.05			26.5		2.1	35.2	2,833	1,645
	240	18.43	2.6	1.2	29.6	2.0	2.2	38.5	3,517	1,976
	300	20.64	2.8		32.3		2.3	41.4	4,272	2,314
	400	23.34	3.0		35.7		2.5	46.1	5,409	2,904
	500	26.21	3.2	1.4	38.9	2.5	2.6	49.7	6,574	3,417
	630	29.80	3.2		41.9		2.7	52.8	8,109	4,000

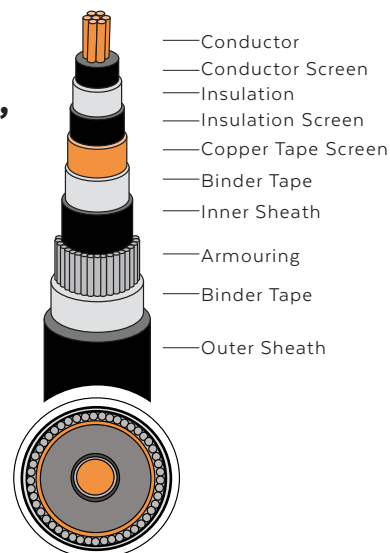
SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

6/10(12)KV OR 6.35/11(12)KV
CU / XLPE / CTS / AWA / PVC


STANDARD SPECIFICATION

IEC 60502-2, BS6622

CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.

APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Aluminium Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	3.4	1.0	20.6	1.6	1.9	28.0	1,247	943
	70	9.74			22.2			29.8	1,518	1,078
	95	11.46			23.9			31.6	1,843	1,233
	120	12.93			25.4	2.0	2.0	34.0	2,240	1,460
	150	14.33			26.8			35.6	2,613	1,629
	185	16.05			28.9			37.8	3,030	1,842
	240	18.43		1.2	31.3	2.0	2.3	40.4	3,668	2,128
	300	20.64			33.5			42.7	4,384	2,425
	400	23.34			36.2	2.5	2.5	46.7	5,472	2,967
	500	26.21		1.4	39.5			50.2	6,630	3,472
	630	29.80			42.5			53.4	8,181	4,072

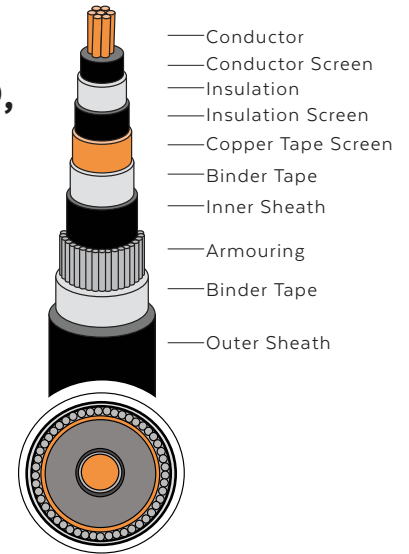
SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CTS / AWA / PVC OR
AL / XLPE / CTS / AWA / PVC



STANDARD SPECIFICATION	IEC 60502-2, BS6622
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Copper Tape Screened Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (50 - 630)mm ²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION	SPECIAL FEATURE ON REQUEST	CUSTOMISATION
Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.	<ul style="list-style-type: none"> • UV Resistance • Anti Termite • Anti Rodent • Low Smoke Zero Halogen • Flame Retardant 	Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Aluminium Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	4.5	1.0	23.0	1.6	2.0	30.7	1,387	1,083
	70	9.74			24.6	2.0	2.1	33.3	1,745	1,305
	95	11.46			26.7		2.2	35.6	2,124	1,514
	120	12.93		1.2	28.2			37.2	2,450	1,670
	150	14.33			29.6	2.5	2.3	38.7	2,822	1,838
	185	16.05			31.3			40.5	3,212	2,024
	240	18.43			33.7		2.5	44.2	4,003	2,463
	300	20.64		1.4	36.3			46.9	4,780	2,822
	400	23.34			39.0	2.5	2.6	49.8	5,739	3,235
	500	26.21			41.9		2.7	52.9	6,864	3,706
	630	29.80			44.9		2.9	56.2	8,439	4,331

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

12/20(24)KV OR 12.7/22(24)KV
CU / XLPE / CTS / AWA / PVC OR
AL / XLPE / CTS / AWA / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

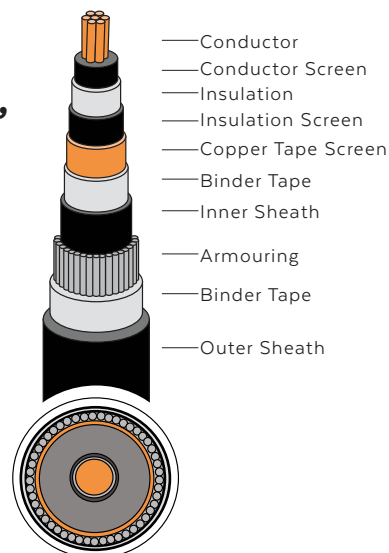
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 630)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation,
directly in the ground or in cable ducts, as part of
power distribution networks, transformer stations,
switching blocks and power plants, including in
the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on
your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Aluminium Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	5.5	1.0	25.0	1.6	2.0	32.7	1,507	1,203
	70	9.74			26.6	2.0	2.1	35.3	1,875	1,435
	95	11.46			28.7		2.2	37.6	2,262	1,652
	120	12.93		1.2	30.2			39.2	2,594	1,813
	150	14.33			31.6	2.5	2.3	40.7	2,970	1,986
	185	16.05			33.3			42.5	3,365	2,177
	240	18.43			35.7		2.5	46.2	4,172	2,631
	300	20.64		1.4	38.3			48.9	4,958	3,000
	400	23.34			41.0	2.5	2.6	51.8	5,926	3,421
	500	26.21			43.9		2.7	54.9	7,060	3,903
	630	29.80			46.9		2.9	58.2	8,646	4,538

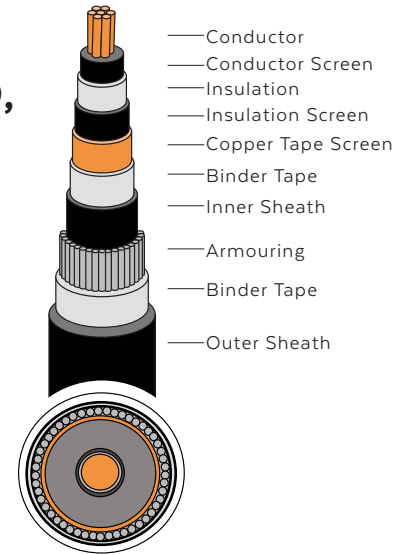
SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, PVC SHEATHED CABLE

18/30(33)KV OR 19/33(36)KV
CU / XLPE / CTS / AWA / PVC OR
AL / XLPE / CTS / AWA / PVC



STANDARD SPECIFICATION	IEC 60502-2, BS6622
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Copper Tape Screened Aluminium Wire Armoured, PVC Sheathed Cables - 1 Core
CABLE SIZES RANGE	1 Core x (50 - 630)mm ²
SHEATHING COLOURS	Black, other colours is available upon request.

APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Aluminium Wire Armour Diameter	Nominal Outer-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1	50	8.10	8.0	1.2	34.0	2.5	2.4	43.3	2,243	1,939
	70	9.74			35.6		2.5	46.1	2,706	2,266
	95	11.46			37.4			47.9	3,080	2,470
	120	12.93		1.4	39.2		2.6	50.0	3,497	2,717
	150	14.33			40.6			51.4	3,888	2,905
	185	16.05			42.4		2.7	53.3	4,328	3,140
	240	18.43			44.7		2.8	55.8	5,017	3,476
	300	20.64			46.9		2.9	58.2	5,801	3,843
	400	23.34		1.6	50.0		3.0	61.5	6,868	4,363
	500	26.21			52.9		3.1	64.6	8,046	4,888
	630	29.80			55.9		3.2	67.8	9,664	5,556

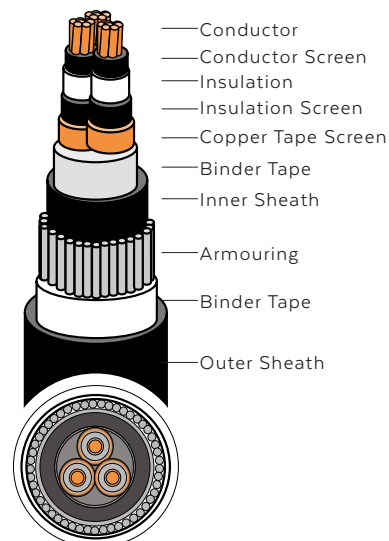
SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, GALVANISED STEEL WIRE ARMoured, PVC SHEATHED CABLE

3.6/6(7.2)KV OR 3.8/6.6(7.2)KV
CU / XLPE / CTS / SWA / PVC OR
AL / XLPE / CTS / SWA / PVC


STANDARD SPECIFICATION

IEC 60502-2, BS6622

CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Galvanised Steel Wire Armoured, PVC Sheathed Cables – 3 Core

CABLE SIZES RANGE

3 Core x (50 – 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.

APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Galvanised Steel Wire Armour Diameter	Nominal Outer-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	2.5	1.4	39.0	2.5	2.6	49.6	4,632	3,719
	70	9.74			42.5		2.7	53.4	5,546	4,226
	95	11.46			46.2		2.8	57.4	6,640	4,810
	120	12.93		1.6	49.8		3.0	61.2	7,764	5,423
	150	14.33			52.8		3.1	64.4	8,939	5,988
	185	16.05			56.5		3.2	68.4	10,183	6,619
	240	18.43	2.6	1.8	62.3	3.15	3.4	75.9	13,174	8,552
	300	20.64	2.8		68.5		3.7	82.7	15,818	9,943
	400	23.34	3.0		75.8		3.9	90.5	19,139	11,624

SHAPE OF CONDUCTOR

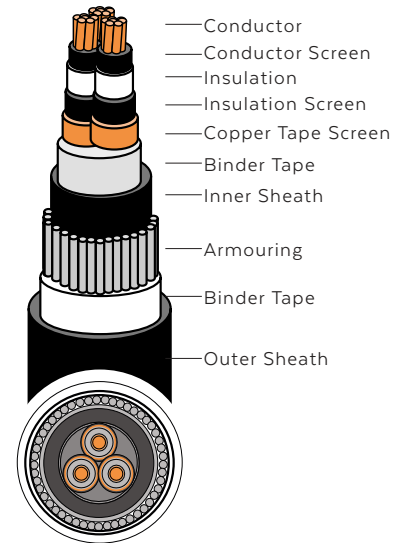
50 – 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, GALVANISED STEEL WIRE ARMoured, PVC SHEATHED CABLE

6/10(12)KV OR 6.35/11(12)KV
CU / XLPE / CTS / SWA / PVC OR
AL / XLPE / CTS / SWA / PVC

STANDARD SPECIFICATION	IEC 60502-2, BS6622
CABLE DESCRIPTION	Copper Conductor, XLPE Insulated, Copper Tape Screened Galvanised Steel Wire Armoured, PVC Sheathed Cables – 3 Core
CABLE SIZES RANGE	3 Core x (50 – 400)mm ²
SHEATHING COLOURS	Black, other colours is available upon request.



APPLICATION	SPECIAL FEATURE ON REQUEST	CUSTOMISATION
Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.	<ul style="list-style-type: none"> • UV Resistance • Anti Termite • Anti Rodent • Low Smoke Zero Halogen • Flame Retardant 	Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Galvanised Steel Wire Armour Diameter	Nominal Outer-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	3.4	1.4	42.2	2.5	2.7	53.1	4,996	4,082
	70	9.74			45.7		2.8	56.9	5,937	4,617
	95	11.46			49.8		2.9	61.2	7,105	5,275
	120	12.93		1.6	53.0		3.1	64.7	8,175	5,834
	150	14.33			56.0		3.2	67.9	9,363	6,412
	185	16.05			59.7		3.3	71.9	10,638	7,075
	240	18.43		1.8	65.3	3.15	3.5	79.1	13,674	9,052
	300	20.64			70.0		3.7	84.2	16,046	10,171
	400	23.34			75.8		3.9	90.5	19,139	11,624

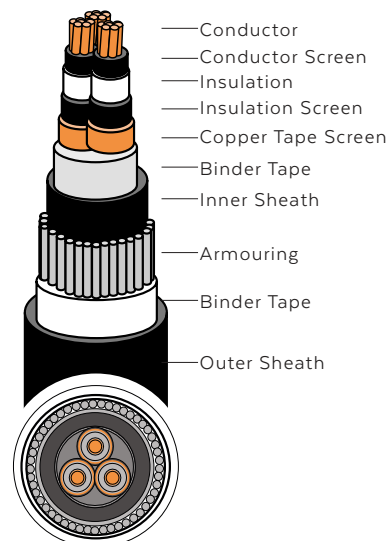
SHAPE OF CONDUCTOR

50 – 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, GALVANISED STEEL WIRE ARMoured, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CTS / SWA / PVC OR
AL / XLPE / CTS / SWA / PVC


STANDARD SPECIFICATION

IEC 60502-2, BS6622

CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Galvanised Steel Wire Armoured, PVC Sheathed Cables – 3 Core

CABLE SIZES RANGE

3 Core x (50 – 400)mm²
SHEATHING COLOURS

Black, other colours is available upon request.

APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Galvanised Steel Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	4.5	1.6	47.8	2.5	3.0	59.2	5,714	4,801
	70	9.74			51.3		3.1	63.0	6,672	5,352
	95	11.46			55.0		3.2	67.0	7,814	5,984
	120	12.93			58.2		3.3	70.3	8,892	6,552
	150	14.33			61.2	3.2	3.5	75.0	10,945	7,994
	185	16.05		1.8	65.3		3.6	79.4	12,386	8,823
	240	18.43			70.4	3.15	3.8	84.9	14,568	9,946
	300	20.64			75.2		3.9	89.9	16,971	11,096
	400	23.34			81.0		4.2	96.2	20,090	12,575

SHAPE OF CONDUCTOR

50 – 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, GALVANISED STEEL WIRE ARMoured, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CTS / SWA / PVC OR
AL / XLPE / CTS / SWA / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

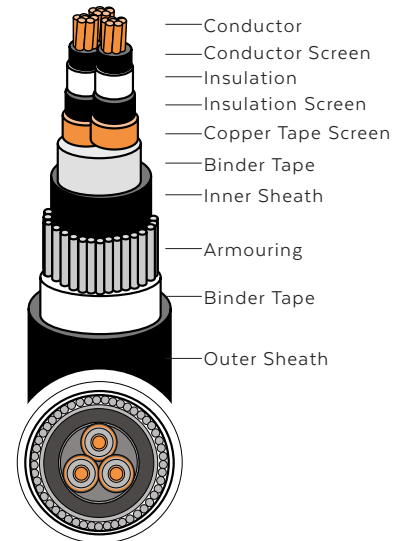
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Galvanised Steel Wire Armoured, PVC Sheathed Cables – 3 Core

CABLE SIZES RANGE

3 Core x (50 – 300)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Galvanised Steel Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	5.5	1.6	52.1	2.5	3.0	59.2	6,235	5,322
	70	9.74			55.6		3.1	63.0	7,218	5,899
	95	11.46			59.3		3.2	67.0	8,375	6,545
	120	12.93			62.5		3.3	70.3	10,330	7,990
	150	14.33		1.8	65.9	3.2	3.5	75.0	11,693	8,742
	185	16.05			69.6		3.6	79.4	13,059	9,496
	240	18.43			74.7	3.15	3.8	84.9	15,260	10,638
	300	20.64			79.5		3.9	89.9	17,700	11,824

SHAPE OF CONDUCTOR

50 – 630 sqmm Circular Compacted

MEDIUM VOLTAGE CABLE

THREE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER TAPE SCREENED, GALVANISED STEEL WIRE ARMOURED, PVC SHEATHED CABLE

8.7/15(17.5)KV OR 8.7/15(17.5)KV
CU / XLPE / CTS / SWA / PVC OR
AL / XLPE / CTS / SWA / PVC

STANDARD SPECIFICATION

IEC 60502-2, BS6622

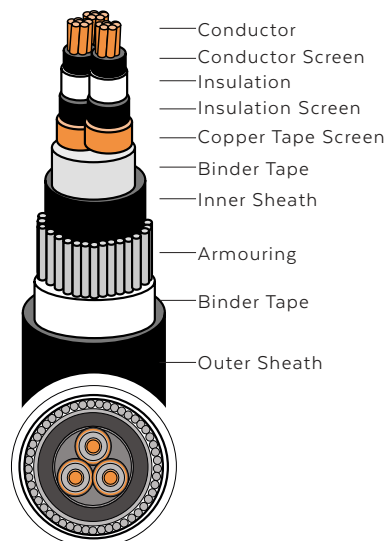
CABLE DESCRIPTION

Copper Conductor, XLPE Insulated, Copper Tape Screened
Galvanised Steel Wire Armoured, PVC Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (50 - 300)mm²
SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Suitable for indoor and outdoor static installation, directly in the ground or in cable ducts, as part of power distribution networks, transformer stations, switching blocks and power plants, including in the renewable energy sector.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Inner Sheath Diameter (Approx)	Nom. Galvanised Steel Wire Armour Diameter	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
3	50	8.10	8.0	1.8	69.3	3.15	3.7	84.1	9,582	8,669
	70	9.74			72.8		3.8	87.8	10,679	9,359
	95	11.46			76.5		4.0	91.9	11,973	10,143
	120	12.93			79.7		4.1	95.2	13,178	10,837
	150	14.33			82.7		4.2	98.4	14,508	11,557
	185	16.05			86.8		4.3	102.8	16,076	12,513
	240	18.43		2.0	92.0		4.5	108.4	18,403	13,780
	300	20.64			96.7		4.7	113.4	20,941	15,065

SHAPE OF CONDUCTOR

50 - 630 sqmm Circular Compacted

HIGH VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREEN, LONGITUDINAL WATER BARRIER, PE SHEATHED CABLE

19/33(36)KV

CU / XLPE / CWS / LWB / PE OR
AL / XLPE / CWS / LWB / PE

STANDARD SPECIFICATION

IEC 60840, TNB Spec

CABLE DESCRIPTION

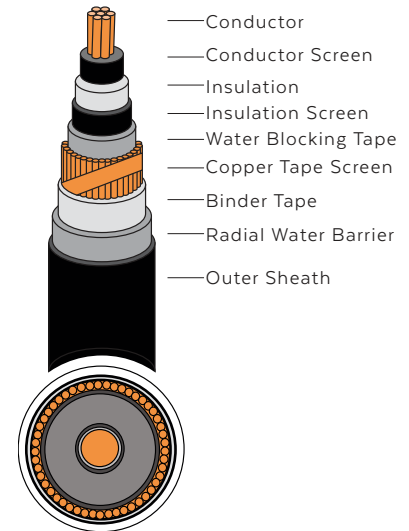
Copper Conductor, XLPE Insulated, Copper Wire Screen,
Longitudinal Water Barrier, PE Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (500 & 630)mm²

SHEATHING COLOURS

Black, other colours is available upon request.


APPLICATION

Cables designed to be submerged in water or in constant contact with water are usually designed to be both laterally and longitudinally watertight. Laterally watertight ensures that water can't penetrate into the cores of the cable. Longitudinally water tight cable is designed with a barrier to the spread of moisture along the cable length.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Min. Insulation Thickness at any point	Min. Insulation Screen Thickness	Copper Wire Screen Short Circuit	Nominal Outer Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)	Aluminium Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	kA/3sec	mm	mm	kg/km	kg/km
1	500	26.21	8.0	0.5	25	5.0	68	9,297	6,201
	630	29.80					71	10,965	6,937

SHAPE OF CONDUCTOR

500 & 630 sqmm Compacted

HIGH VOLTAGE CABLE

SINGLE CORE – COPPER OR ALUMINIUM, XLPE INSULATED, COPPER WIRE SCREENED LONGITUDINAL WATER BARRIER, PE SHEATHED CABLE

76/132(152)KV

CU / XLPE / CWS / LWB / PE OR
AL / XLPE / CWS / LWB / PE

STANDARD SPECIFICATION

IEC 60840, TNB Spec

CABLE DESCRIPTION

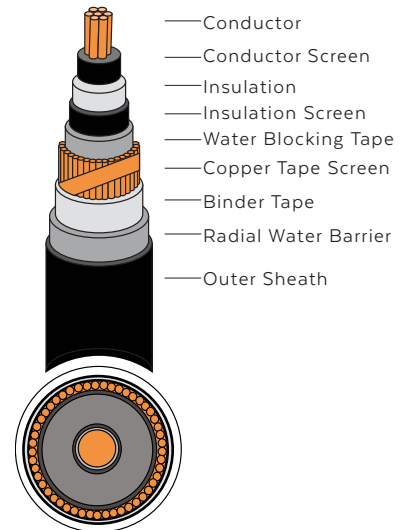
Copper Conductor, XLPE Insulated, Copper Wire Screen, Longitudinal Water Barrier, PE Sheathed Cables - 1 Core

CABLE SIZES RANGE

1 Core x (400, 630 & 800)mm²

SHEATHING COLOURS

Black, other colours is available upon request.



APPLICATION

Cables designed to be submerged in water or in constant contact with water are usually designed to be both laterally and longitudinally watertight. Laterally watertight ensures that water can't penetrate into the cores of the cable. Longitudinally water tight cable is designed with a barrier to the spread of moisture along the cable length.

SPECIAL FEATURE ON REQUEST

- UV Resistance
- Anti Termite
- Anti Rodent
- Low Smoke Zero Halogen
- Flame Retardant

CUSTOMISATION

Customisation is available upon request based on your cable specification.

CONSTRUCTION DATA

Number of Core	Nominal Sectional Area	Conductor Diameter (Approx)	Min. Insulation Thickness at any point	Min. Insulation Screen Thickness	Copper Wire Screen Short Circui	Nominal Out-er-Sheath Thickness	Overall Diameter (Approx)	Copper Cable Weight (Approx)
Nos	mm ²	mm	mm	mm	kA / 3sec	mm	mm	kg/km
1	400	23.34	18.0	1.0	31.5	4.0	92	12,130
	630	29.80					98	15,160
	800	34.32					104	17,980

SHAPE OF CONDUCTOR

400, 630 & 800 sqmm Compacted

CURRENT CARRYING CAPACITY

CURRENT RATING FOR SINGLE CORE COPPER CABLE WITH XLPE INSULATION

RATED VOLTAGE 3.6/6KV TO 18/30KV

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	196	203	186	188	238	243	286
70	239	248	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	528	524	504	510	735	739	846
400	590	572	564	571	845	837	938

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF
EARTHWARE DUCT 1.2 K.m/W

SCREEN AT BOTH END

CURRENT RATING FOR SINGLE CORE ALUMINIUM CABLE WITH XLPE INSULATION

RATED VOLTAGE 3.6/6KV TO 18/30KV

Nominal Area of Conductor	Buried Direct in Ground		In Single Way Duct		In Air		
	Trefoil	Flat Spaced	Trefoil Duct	Flat Touching Duct	Trefoil	Flat Touching	Flat Spaced
mm ²	A	A	A	A	A	A	A
50	152	157	144	146	184	189	222
70	186	192	176	178	230	236	278
95	221	229	210	213	280	287	338
120	252	260	240	242	324	332	391
150	281	288	267	271	368	376	440
185	317	324	303	307	424	432	504
240	367	373	351	356	502	511	593
300	414	419	397	402	577	586	677
400	470	466	451	457	673	676	769

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

THERMAL RESISTIVITY OF SOIL 1.5 K.m/W

THERMAL RESISTIVITY OF
EARTHWARE DUCT 1.2 K.m/W

SCREEN AT BOTH END

CURRENT CARRYING CAPACITY

CURRENT RATING FOR THREE CORE COPPER CABLE WITH XLPE INSULATION

RATED VOLTAGE 3.6/6KV TO 18/30KV

Nominal Area of Conductor	Un-Armoured			Armoured		
	Buried Direct in Ground	In Buried in Duct	In Air	Buried Direct in Ground	In Buried in Duct	In Air
mm ²	A	A	A	A	A	A
50	181	158	204	181	158	205
70	221	193	253	220	194	253
95	262	231	304	263	232	307
120	298	264	351	298	264	352
150	334	297	398	332	296	397
185	377	336	455	374	335	453
240	434	390	531	431	387	529
300	489	441	606	482	435	599
400	553	501	696	541	492	683

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING

0.8m

THERMAL RESISTIVITY OF SOIL

1.5 K.m/W

THERMAL RESISTIVITY OF
EARTHWARE DUCT

1.2 K.m/W

CURRENT RATING FOR THREE CORE ALUMINIUM CABLE WITH XLPE INSULATION

RATED VOLTAGE 3.6/6KV TO 18/30KV

Nominal Area of Conductor	Un-Armoured			Armoured		
	Buried Direct in Ground	In Buried in Duct	In Air	Buried Direct in Ground	In Buried in Duct	In Air
mm ²	A	A	A	A	A	A
50	140	122	158	140	123	159
70	171	150	196	171	150	196
95	203	179	236	204	180	238
120	232	205	273	232	206	274
150	260	231	309	259	231	309
185	294	262	355	293	262	354
240	340	305	415	338	304	415
300	384	346	475	380	343	472
400	438	398	552	432	393	545

MAXIMUM CONDUCTOR TEMPERATURE 90°C

AMBIENT AIR TEMPERATURE 30°C

GROUND TEMPERATURE 20°C

DEPTH OF LAYING 0.8m

DEPTH OF LAYING

0.8m

THERMAL RESISTIVITY OF SOIL

1.5 K.m/W

THERMAL RESISTIVITY OF
EARTHWARE DUCT

1.2 K.m/W

IEC 60502-2

DESIGN GUIDELINE
Class 2 conductor cables for rated voltage from 6kV ($U_m=7,2kV$) up to 30kV ($U_m=36kV$) with extruded solid insulation.
PERFORMANCE REQUIREMENT
Cable design with water barrier to prevent longitudinal water penetration.

BS 6622

DESIGN GUIDELINE	
Single core and three core armoured cables with thermosetting insulation with a voltage rating ranging from 3.8/6.6kV up to 19/33kV.	
TEST METHOD	
Cat. A	Systems where phase conductors that comes into contact with earth or an earth conductor are disconnected within 1 minute.
Cat. B	Systems which continue to operate under fault conditions of up to 8 hours (not exceeding 125 hours per annum)
Cat. C	Systems not falling under A or B
PERFORMANCE REQUIREMENT	
Maximum operating temperature of 90°C for use in fixed installations including networks and industrial installations.	

IEC 60840

DESIGN GUIDELINE
High voltage single core or individually screened three-core cables for rated voltage from 30kV ($U_m=36kV$) and 150kV ($U_m=170kV$) designed for fixed installations and suitable for the primary distribution of power, excludes cables for special applications such as submarine and mining.
PERFORMANCE REQUIREMENT
Cable test are simulated to represent a 30 year service lifetime on a cable sample of at least 1 metre.

TNB SPECIFICATION

TEST METHOD		
STEP 1	STEP 2	STEP 3
Specimen being placed in "combustion boat" (76x15x10 mm) and heated at temperature of 800 ± 100C for 20 minutes.	Amount of halogen acid, is expressed in milligrams of hydrochloric acid per gram: $\% \text{ Weight} = \frac{(36.5 \times (B-A) \times M \times 1000/200)}{m} \times 100$	The pH value and conductivity are calculated as below: $pH = \log_{10} \frac{\sum i w_i}{\sum i (w_i / 10^2)}$ $\text{Conductivity} = \frac{\sum i c \times w_i}{\sum i w_i}$
PERFORMANCE REQUIREMENT		
The carbonisation not exceeding 50mm		
A = volume of 0.1M ammonium thiocyanate solution used in the test B = volume of 0.1M ammonium thiocyanate solution used in the blank test m = mass of the sample taken grams M = molarity of ammonium thiocyanate solution		x = pH value of each non-metallic material i c = conductivity of each non-metallic material i w _i = weight of each metallic material i per unit length of the cable

HEAD OFFICE & FACTORY

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CUSTOMER SERVICE

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QUALITY ACCREDITATION



MS ISO 9001:2015
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SNI 04-6629.3-2006
NPB 104-124-191551



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