

NON-ARMoured POWER CABLE CU/XLPE/PVC



APPLICATION

These cables have been designated for general purpose, including underground use where they are not likely to suffer mechanical damage.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Fixed: -25°C to +90°C

Minimum Bending Radius
1.5mm² to 16mm² - Fixed: 6 x overall diameter
25mm² and above - Fixed: 8 x overall diameter

CONSTRUCTION

Conductor
Plain circular solid or stranded, copper conductors, per IEC:60228 class 1 and 2.

Insulation
XLPE (Cross-Linked Polyethylene)

Bedding
PVC (Polyvinyl Chloride)

Sheath
PVC (Polyvinyl Chloride)

CABLE THIRD-PARTY ACCREDITATIONS

Cables are type tested and accredited by Kenya Bureau and Standards (KEBS)

STANDARDS

KS IEC/EN 60502-1, KS IEC 60228
Flame Retardant according to IEC/EN 60332-1-2



CORE IDENTIFICATION

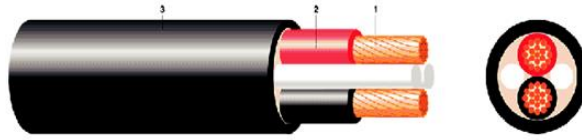
1 core: Red Black
2 core: Red Black
3 core: Red Yellow Blue
4 core: Red Yellow Blue Black
5 core and above: Red Yellow Green/yellow Blue Black

Sheath Colour

● Black



Two Core Unarmoured Cables - Copper Conductors XLPE Insulated 0.6/1KV



DIMENSION AND WEIGHT

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx (kg/km)	Standard package m±5%
1.5re	1	0.7	1.8	11.8	131	1000
1.5rm	7	0.7	1.8	12.1	134	1000
2.5re	1	0.7	1.8	12.6	165	1000
2.5rm	7	0.7	1.8	13	175	1000
4re	1	0.7	1.8	13.5	210	1000
4rm	7	0.7	1.8	14	225	1000
6re	1	0.7	1.8	14.5	270	1000
6rm	7	0.7	1.8	15.1	290	1000
10rm	7	0.7	1.8	17	410	1000
16rm	7	0.7	1.8	19	580	1000
25rm	7	0.9	1.8	22.4	870	1000
35rm	7	0.9	1.8	24.6	1130	1000



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CURRENT CARRYING CAPACITY

Conductor	Conductor resistance		In ground		In air	
	Cross Sectional Area mm ²	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured
			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx amps	In pipes Approx amps
1.5	12.1	15.4	27	22	22	18
2.5	7.41	9.45	35	29	29	24
4	4.61	5.88	45	37	38	31
6	3.08	3.93	56	46	48	39
10	1.83	2.33	76	62	67	52
16	1.15	1.47	98	80	88	68
25	0.727	0.927	128	104	118	90
35	0.524	0.669	157	125	142	107

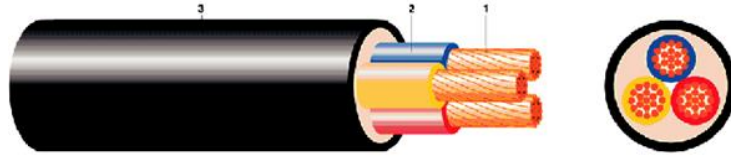
All values are calculated in accordance with IEC 60287

- Ground temperature 35°C
- Air ambient temperature 40°C
- Depth of burial 0.5m
- Thermal resistivity of soil 1.2Km/W
- Spacing between cables in flat formation One cable diameter



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Three Core Unarmoured Cables - Copper Conductors XLPE Insulated 0.6/1KV



DIMENSION AND WEIGHT

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx (kg/km)	Standard package m±5%
1.5re	1	0.7	1.8	12.2	149	1000
1.5rm	7	0.7	1.8	12.6	150	1000
2.5re	1	0.7	1.8	13.0	191	1000
2.5rm	7	0.7	1.8	13.5	203	1000
4re	1	0.7	1.8	14.1	251	1000
4rm	7	0.7	1.8	14.6	270	1000
6re	1	0.7	1.8	15.2	327	1000
6rm	7	0.7	1.8	15.8	350	1000
10rm	7	0.7	1.8	17.8	506	1000
16rm	7	0.7	1.8	20.0	725	1000
25rm	7	0.9	1.8	23.6	1100	1000
35sm	7	0.9	1.8	21.0	1215	1000

• re - circular solid conductor • rm - circular stranded conductor • sm- sectoral stranded conductor



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CURRENT CARRYING CAPACITY

Conductor		Conductor resistance		In ground		In air	
Cross Sectional Area mm ²	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured		
			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx amps	In pipes Approx amps	
1.5	12.1	15.4	27	22	22	18	
2.5	7.41	9.45	35	29	29	24	
4	4.61	5.88	45	37	38	31	
6	3.08	3.93	56	46	48	39	
10	1.83	2.33	76	62	67	52	
16	1.15	1.47	98	80	88	68	
25	0.727	0.927	128	104	118	90	
35	0.524	0.669	157	125	142	107	
50	0.387	0.494	187	149	175	129	
70	0.268	0.343	229	183	220	161	
95	0.193	0.248	276	220	272	196	
120	0.153	0.197	313	251	316	226	
150	0.124	0.16	350	283	363	258	
185	0.0991	0.129	395	321	418	295	
240	0.0754	0.0998	458	372	496	346	

All values are calculated in accordance with IEC 60287

Ground temperature 35°C

Air ambient temperature 40°C

Depth of burial 0.5m

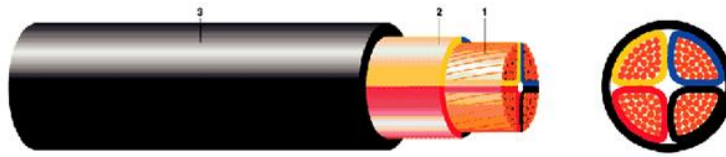
Thermal resistivity of soil 1.2Km/W

Spacing between cables in flat formation One cable diameter



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Four Core Unarmoured Cables - Copper Conductors XLPE Insulated 0.6/1KV



DIMENSION AND WEIGHT

Conductor		Insulation	Outer Sheath		Packaging	
Cross sectional area Nominal (mm ²)	Minimum number of wires (No.)	Thickness Nominal (mm)	Thickness Nominal (mm)	Overall diameter Approx (mm)	Net weight Approx (kg/km)	Standard package m±5%
1.5re	1	0.7	1.8	12.9	250	1000
1.5rm	7	0.7	1.8	13.3	255	1000
2.5re	1	0.7	1.8	13.9	305	1000
2.5rm	7	0.7	1.8	14.4	315	1000
4re	1	0.7	1.8	15	385	1000
4rm	7	0.7	1.8	15.7	400	1000
6re	1	0.7	1.8	16.2	495	1000
6rm	7	0.7	1.8	17.1	510	1000
10rm	7	0.7	1.8	19.2	715	1000
16rm	7	0.7	1.8	21.6	995	1000
25rm	7	0.9	1.8	25.8	1465	1000
35sm	7	0.9	1.8	25.2	1590	500
50sm	7	1	1.9	29.3	2125	500
70sm	12	1.1	2	33.4	2995	500
95sm	15	1.1	2.1	37.4	4040	500
120sm	18	1.2	2.3	40.2	5130	500
150sm	18	1.4	2.4	44.7	6335	500
185sm	30	1.6	2.6	50.8	7735	250
240sm	34	1.7	2.8	56.8	10150	250

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CURRENT CARRYING CAPACITY

Conductor	Conductor resistance		In ground		In air	
	DC at 20°C Maximum ohm/km	AC at 85°C Approx ohm/km	Unarmoured		Unarmoured	
Cross Sectional Area mm ²			Direct laid Approx (amps)	Laid in ducts Approx amps	Free Approx amps	In pipes Approx amps
1.5	12.1	15.4	27	22	22	18
2.5	7.41	9.45	35	29	29	24
4	4.61	5.88	45	37	38	31
6	3.08	3.93	56	46	48	39
10	1.83	2.33	76	62	67	52
16	1.15	1.47	98	80	88	68
25	0.727	0.927	128	104	118	90
35	0.524	0.669	157	125	142	107
50	0.387	0.494	187	149	175	129
70	0.268	0.343	229	183	220	161
95	0.193	0.248	276	220	272	196
120	0.153	0.197	313	251	316	226
150	0.124	0.16	350	283	363	258
185	0.0991	0.129	395	321	418	295
240	0.0754	0.0998	458	372	496	346

All values are calculated in accordance with IEC 60287

Depth of burial

0.5m

Ground temperature

35°C

Thermal resistivity of soil

1.2Km/W

Air ambient temperature

40°C

Spacing between cables in flat formation

One cable diameter

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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