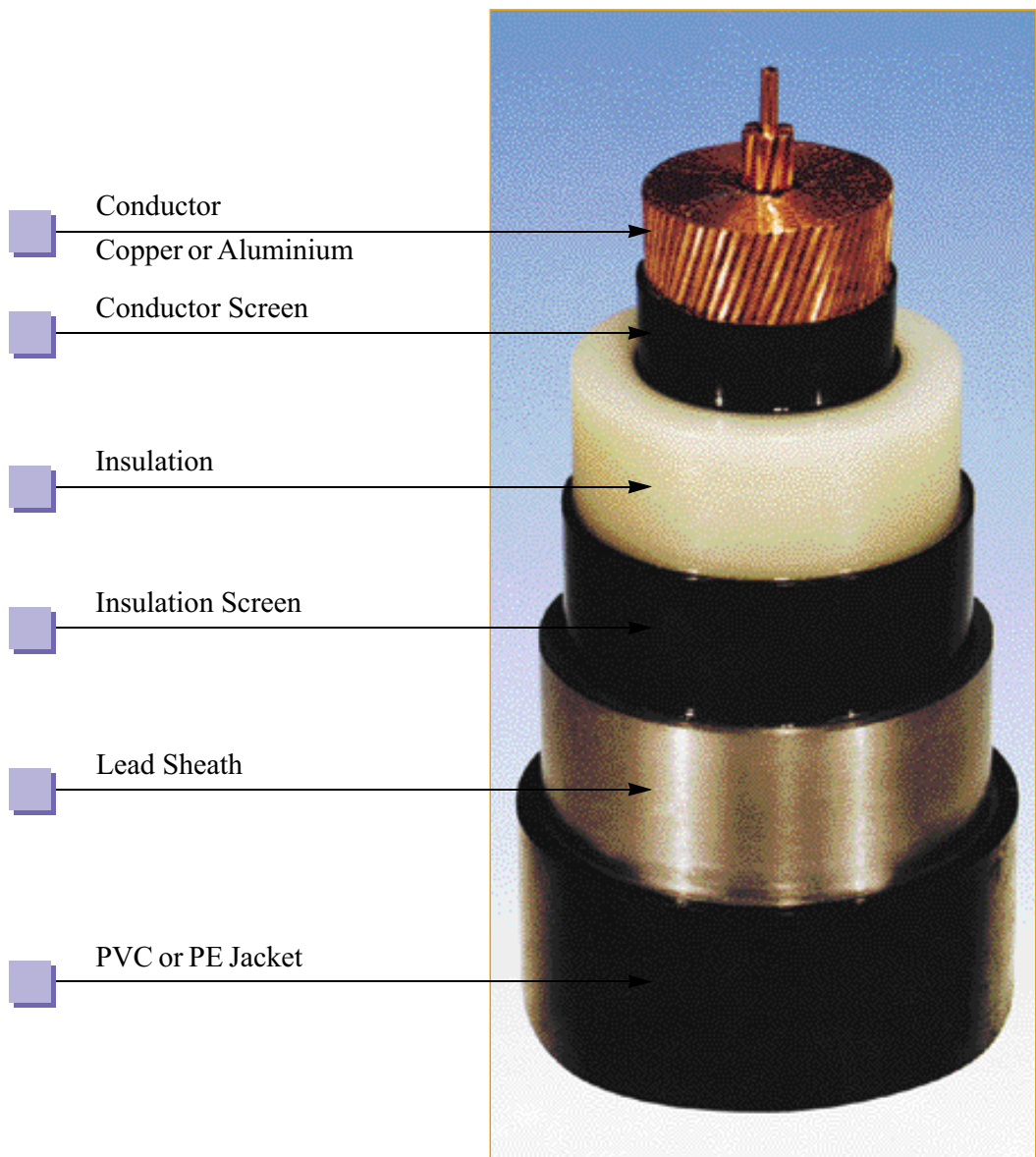


6 HIGH VOLTAGE CABLES
BETWEEN 38 / 66 (72.5) KV AND 130 / 225 (245) KV

6.1 - COPPER AND ALUMINIUM CONDUCTOR
LEAD SHEATH SCREEN (66 - 225 KV)

COMPACT ROUND STRANDED
COPPER OR ALUMINIUM



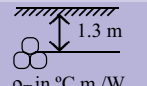

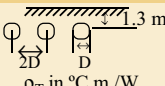
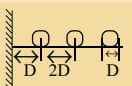
**36 / 63 TO 40 / 69 (72.5) KVXLPE CABLES
ALUMINIUM CONDUCTOR**

Lead sheath screen

Constructional data (nominal)

Conductor			Thickness of Conductor screen	Thickness of insulation	Thickness of insulation screen	Thickness of lead sheath	Thickness of Jacket	Outside diameter of cable	Lead sectional area	Weight of cable	DC conductor resistance at 20°C	Electrostatic capacitance
Nominal sectional area mm ²	Shape	Diameter mm	Approx. mm	Approx. mm	Approx. mm	mm	mm	Approx. mm	mm ²	Approx. kg/m	Ω/km	μF/km
150 R	R: compact Round stranded	14.2	1.0	10.0	1.0	2.0	2.9	54	300	6	0.2060	0.17
185R		16.2	1.0	10.0	1.0	2.0	2.9	54	300	6	0.1640	0.19
240R		18.4	1.0	10.0	1.0	2.0	2.9	54	300	6	0.1250	0.22
300R		21.0	1.0	10.0	1.0	2.0	3.0	60	335	7	0.1000	0.22
400R		23.3	1.0	10.0	1.0	2.0	3.0	60	335	7	0.0778	0.25
500R		26.4	1.0	10.0	1.0	2.0	3.2	66	370	8	0.0605	0.25
630R		30.3	1.0	10.0	1.0	2.0	3.3	71	405	9	0.0469	0.26
800R		34.7	1.0	10.0	1.0	2.0	3.4	76	440	11	0.0367	0.28
1000R		38.8	1.0	10.0	1.0	2.0	3.4	77	445	11	0.0291	0.35
1200 R		41.7	1.0	10.0	1.0	2.0	3.6	82	475	12	0.0247	0.35

Continuous current ratings (load factor= 100%) for one circuit in operation (Amperes)

Laying conditions: Trefoil formation						Laying conditions: Flat formation					
Earthing conditions	Nominal sectional area	Direct burial		In air		Earthing conditions	Nominal sectional area	Direct burial		In air	
											
		ρ_T in °C.m./W		ρ_T in °C.m./W				ρ_T in °C.m./W		ρ_T in °C.m./W	
Induced current in the metallic screen	mm ²	$\rho_T=1.0$ T=20°C	$\rho_T=1.2$ T=30°C	T=30°C	T=50°C	Induced current in the metallic screen	mm ²	$\rho_T=1.0$ T=20°C	$\rho_T=1.2$ T=30°C	T=30°C	T=50°C
with circulating currents	150 R	310	270	360	285	without circulating current	150 R	325	280	405	325
	185 R	350	305	410	325		185 R	370	320	470	375
	240 R	405	350	480	380		240 R	430	370	555	440
	300 R	460	395	555	440		300 R	485	420	635	505
	400 R	525	450	640	505		400 R	560	480	740	590
	500 R	595	515	740	585		500 R	640	550	855	680
without circulating current	630 R	695	600	875	695	630 R	735	630	1000	795	
	800 R	790	680	1010	800	800 R	835	720	1155	920	
	1000 R	880	755	1150	910	1000 R	945	810	1335	1060	
	1200 R	945	815	1250	990	1200 R	1020	875	1450	1155	

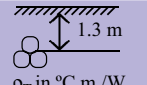

64 / 110 (123) KVXLPE CABLES ALUMINIUM CONDUCTOR

Lead sheath screen

Constructional data (nominal)

Conductor			Thickness of Conductor screen	Thickness of insulation	Thickness of insulation screen	Thickness of lead sheath	Thickness of Jacket	Outside diameter of cable	Lead sectional area	Weight of cable	DC conductor resistance at 20°C	Electrostatic capacitance
Nominal sectional area mm ²	Shape	Diameter mm	Approx. mm	Approx. mm	Approx. mm	mm	mm	Approx. mm	mm ²	Approx. kg/m	Ω/km	μF/km
240 R	R:	18.4	1.0	16.0	1.0	2.0	3.2	65	370	8	0.1250	0.16
300 R	compact Round stranded	21.0	1.0	16.0	1.0	2.0	3.3	70	400	9	0.1000	0.17
400 R	stranded	23.3	1.0	16.0	1.0	2.0	3.3	71	400	9	0.0778	0.19

Continuous current ratings (load factor= 100%) for one circuit in operation (Amperes)

Laying conditions: Trefoil formation						Laying conditions: Flat formation					
Earthing conditions	Nominal sectional area mm ²	Direct burial		In air		Earthing conditions	Nominal sectional area mm ²	Direct burial		In air	
		 ρ _T in °C.m./W						 ρ _T in °C.m./W			
		ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C			ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C
with circulating currents	240 R	405	350	480	385	without circulating current	240 R	425	370	540	435
	300 R	455	395	550	440		300 R	485	420	620	495
	400 R	520	450	635	505		400 R	555	480	720	575

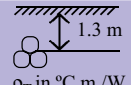

76 / 132 (145) KVXLPE CABLES ALUMINIUM CONDUCTOR

Lead sheath screen

Constructional data (nominal)

Conductor			Thickness of Conductor screen	Thickness of insulation	Thickness of insulation screen	Thickness of lead sheath	Thickness of Jacket	Outside diameter of cable	Lead sectional area	Weight of cable	DC conductor resistance at 20°C	Electrostatic capacitance
Nominal sectional area mm ²	Shape	Diameter mm	Approx. mm	Approx. mm	Approx. mm	mm	mm	Approx. mm	mm ²	Approx. kg/m	Ω/km	μF/km
240 R	R:	18.4	1.0	18.0	1.0	2.0	3.3	71	400	9	0.1250	0.15
300 R	compact Round stranded	21.0	1.0	18.0	1.0	2.0	3.3	74	420	9	0.1000	0.16
400 R	stranded	23.3	1.0	18.0	1.0	2.0	3.3	76	435	10	0.0778	0.17

Continuous current ratings (load factor= 100%) for one circuit in operation (Amperes)

Laying conditions: Trefoil formation						Laying conditions: Flat formation					
Earthing conditions	Nominal sectional area mm ²	Direct burial		In air		Earthing conditions	Nominal sectional area mm ²	Direct burial		In air	
		 ρ _T in °C.m./W						 ρ _T in °C.m./W			
		ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C			ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C
with circulating currents	240 R	405	350	480	385	without circulating current	240 R	425	370	540	430
	300 R	455	395	550	440		300 R	480	415	620	495
	400 R	520	450	635	505		400 R	550	480	715	570

87 / 150 (170) KVXLPE CABLES ALUMINIUM CONDUCTOR

Lead sheath screen

Constructional data (nominal)

Conductor			Thickness of Conductor screen	Thickness of insulation	Thickness of insulation screen	Thickness of lead sheath	Thickness of Jacket	Outside diameter of cable	Lead sectional area	Weight of cable	DC conductor resistance at 20°C	Electrostatic capacitance
Nominal sectional area mm ²	Shape	Diameter mm	Approx. mm	Approx. mm	Approx. mm	mm	mm	Approx. mm	mm ²	Approx. kg/m	Ω/km	μF/km
240 R	R:	18.4	1.0	20.0	1.0	2.0	3.3	76	435	9	0.1250	0.13
300 R	compact Round	21.0	1.0	20.0	1.0	2.0	3.5	81	465	10	0.1000	0.14
400 R	stranded	23.3	1.0	20.0	1.0	2.0	3.3	81	465	11	0.0778	0.15

Continuous current ratings (load factor= 100%) for one circuit in operation (Amperes)

Laying conditions: Trefoil formation						Laying conditions: Flat formation					
Earthing conditions	Nominal sectional area mm ²	Direct burial		In air		Earthing conditions	Nominal sectional area mm ²	Direct burial		In air	
		ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C			ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C
with circulating currents	240 R	405	350	480	385	without circulating current	240 R	425	370	535	425
	300 R	455	395	550	440		300 R	480	415	610	490
	400 R	515	445	635	505		400 R	550	475	710	570

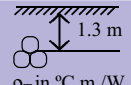

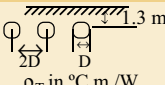
**130 / 225 (245) KVXLPE CABLES
ALUMINIUM CONDUCTOR**

Lead sheath screen

Constructional data (nominal)

Conductor			Thickness of Conductor screen	Thickness of insulation	Thickness of insulation screen	Thickness of lead sheath	Thickness of Jacket	Outside diameter of cable	Lead sectional area	Weight of cable	DC conductor resistance at 20°C	Electrostatic capacitance
Nominal sectional area mm ²	Shape	Diameter mm	Approx. mm	Approx. mm	Approx. mm	mm	mm	Approx. mm	mm ²	Approx. kg/m	Ω/km	μF/km
400 R	R: compact Round stranded	23.3	1.0	23.0	1.0	2.4	3.7	91	625	14	0.0778	0.14
500 R		26.4	1.0	23.0	1.0	2.4	3.7	91	625	14	0.0605	0.15
630 R		30.3	1.0	23.0	1.0	2.5	3.9	99	710	16	0.0469	0.16
800 R		34.7	1.0	23.0	1.0	2.6	4.1	103	775	18	0.0367	0.17
1000 R		38.8	1.0	23.0	1.0	2.7	4.3	108	840	20	0.0291	0.18
1200 R		41.7	1.0	23.0	1.0	2.7	4.3	108	840	20	0.0247	0.20

Continuous current ratings (load factor= 100%) for one circuit in operation (Amperes)

Laying conditions: Trefoil formation						Laying conditions: Flat formation					
Earthing conditions	Nominal sectional area mm ²	Direct burial		In air		Earthing conditions	Nominal sectional area mm ²	Direct burial		In air	
		 1.3 m ρ _T in °C.m./W						 D		 1.3 m ρ _T in °C.m./W	
Induced current in the metallic screen		ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C	Induced current in the metallic screen		ρ _T = 1.0 T=20°C	ρ _T = 1.2 T=30°C	T=30°C	T=50°C
with circulating currents	400 R 500 R	510 580	440 500	630 725	500 580	without circulating current	400 R 500 R	550 630	475 545	700 815	560 655
without circulating current	630 R 800 R 1000 R 1200 R	685 775 865 930	590 665 745 800	860 990 1120 1220	685 785 890 970		630 R 800 R 1000 R 1200 R	720 820 925 1000	625 710 800 865	945 1095 1245 1365	755 875 995 1090