

INSULATED ARMoured CABLES TO BS 6622 STRANDED COPPER OR ALUMINIUM CONDUCTORS



10 9 8 7 6 5 4 3 2 1

1. Round stranded compacted conductor
2. Extruded semi-conductive conductor screen
3. XLPE insulation
4. Extruded semi-conductive insulation screen
5. Copper tape overlapped over each core
6. Fillers
7. Plastic tape
8. PVC inner sheath
9. Galvanised steel wires
10. PVC outersheath

CABLE TYPE:
NOMINAL VOLTAGE:
SPECIFICATION:

XLPE/CTS/PVC/SWA/PVC
8,7/15 kV
BS 6622

The cable can be also produced with CWS or CTS according to IEC 60502-2.

CABLES WITH COPPER CONDUCTOR										
NOMINAL AREA OF CONDUCTOR	DIAMETER (APPROX.)			NET WEIGHT (APPROX.)	CONTINUOUS CURRENT RATING IN GROUND		CONTINUOUS CURRENT RATING IN DUCTS		CONTINUOUS CURRENT RATING IN AIR	
	UNDER ARMOUR	OVER ARMOUR	OVERALL		TREFOIL	FLAT	TREFOIL	FLAT	TREFOIL	FLAT
	mm ²	mm	mm		mm	kg/km	A	A	A	A
1X50	23,9	27,1	30,9	1400	220	230	220	220	250	300
1X70	25,6	28,8	32,6	1600	270	280	260	270	310	370
1X95	27,0	31,0	35,0	2000	320	335	305	325	375	460
1X120	28,3	32,3	36,5	2400	360	380	340	370	430	530
1X150	29,8	33,8	38,0	2700	410	430	375	410	490	600
1X185	31,6	35,6	40,0	3100	455	485	410	460	550	690
1X240	33,9	37,9	42,5	3800	520	560	470	540	650	820
1X300	36,2	40,2	44,8	4400	580	640	500	610	740	940
1X400	39,4	44,4	49,4	5600	650	730	530	690	840	1100
1X500	42,8	47,8	53,0	6700	710	830	570	780	930	1280
1X630	46,7	51,7	57,1	8300	760	940	620	890	1040	1480
1X800	51,2	56,2	61,8	10200	810	1060	660	990	1140	1690
1X1,000	55,8	60,8	66,8	12400	860	1170	690	1090	1230	1900
3X25	44,3	49,3	54,5	4500	140		125		145	
3X35	46,3	51,3	56,7	5000	170		150		175	
3X50	48,6	53,6	59,2	5700	210		180		220	
3X70	52,2	57,2	63,0	6600	250		215		270	
3X95	56,2	61,2	67,2	7800	300		255		330	
3X120	59,6	64,6	70,8	8900	340		290		380	
3X150	62,6	67,6	74,0	10000	380		330		430	
3X185	66,9	73,2	80,0	12300	430		370		490	
3X240	72,3	78,6	85,8	13800	500		430		570	
3X300	77,3	83,6	91,0	17100	540		470		650	

Single core cables are aluminium wire armoured

CABLES WITH ALUMINIUM CONDUCTOR

NOMINAL AREA OF CONDUCTOR	DIAMETER (APPROX.)			NET WEIGHT (APPROX.)	CONTINUOUS CURRENT RATING IN GROUND		CONTINUOUS CURRENT RATING IN DUCTS		CONTINUOUS CURRENT RATING IN AIR	
	UNDER ARMOUR	OVER ARMOUR	OVERALL		TREFOIL	FLAT	TREFOIL	FLAT	TREFOIL	FLAT
					A	A	A	A	A	A
mm ²	mm	mm	mm	kg/km	A	A	A	A	A	A
1X50	23,9	27,1	30,9	1100	170	175	170	170	195	230
1X70	25,6	28,8	32,6	1200	210	215	210	210	240	290
1X95	27,0	31,0	35,0	1400	250	260	245	250	295	355
1X120	28,3	32,3	36,5	1700	280	295	275	285	355	410
1X150	29,8	33,8	38,0	1800	320	330	300	320	380	465
1X185	31,6	35,6	40,0	2000	360	375	335	360	435	530
1X240	33,9	37,9	42,5	2300	415	440	380	420	510	630
1X300	36,2	40,2	44,8	2500	475	495	420	470	580	730
1X400	39,4	44,4	49,4	3200	540	570	455	540	670	860
1X500	42,8	47,8	53,0	3600	610	650	500	620	770	1010
1X630	46,7	51,7	57,1	4300	680	750	550	700	880	1180
1X800	51,2	56,2	61,8	5040	770	860	590	800	980	1370
1X1000	55,8	60,8	66,8	5950	859	960	640	890	1080	1560
3X25	44,3	49,3	54,5	4050	115		95		115	
3X35	46,3	51,3	56,7	4350	135		115		140	
3X50	48,6	53,6	59,2	4800	160		135		170	
3X70	52,2	57,2	63,0	5300	195		165		210	
3X95	56,2	61,2	67,2	6050	230		200		250	
3X120	59,6	64,6	70,8	6700	265		225		295	
3X150	62,6	67,6	74,0	7200	300		255		330	
3X185	66,9	73,2	80,0	8900	335		290		385	
3X240	72,3	78,6	85,8	9350	380		335		450	
3X300	77,3	83,6	91,0	11500	435		375		510	

Single core cables are aluminium wire armoured

Note:

The above ratings are given for 25°C ambient temperature, depth of laying 0,8 m, ground temperature 15°C, thermal resistivity of soil 1,2 Km/W and maximum conductor temperature 90°C. Single core cables are laid either in trefoil formation touching or in flat formation spaced by one cable diameter. For other conditions the correction factors are given below:

Ambient Temperature °C:	25	30	35	40	45	50	55
Correction factor	1,0	0,96	0,92	0,88	0,83	0,78	0,73

Ground Temperature °C:	25	30	35	40	45	50	55
Correction factor	1,0	0,96	0,92	0,88	0,83	0,78	0,73

Ground thermal resistivity:	0,9	1,0	1,2	1,5	2,0	2,5	3,0
Correction factor	1,06	1,04	1,0	0,92	0,82	0,74	0,68

Depth of laying m:	0,8	1,0	1,25	1,5	1,75	2,0	2,5
Correction factor	1,0	0,97	0,95	0,94	0,93	0,91	0,90

MIN. bending radius during installation	Single core cables 20 D	Multicore cables 15 D
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D: overall diameter of cable

CORE IDENTIFICATION:

In three core cables each phase is identified by a coloured strip laid longitudinally under the metallic screen.