

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
19/33 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	30,9	34,9	39,3	2030	220	230	220	220	250	300
1X70	32,6	36,6	41,0	2300	270	280	260	270	310	370
1X95	34,3	38,3	42,9	2650	320	335	305	325	375	460
1X120	35,9	39,9	44,5	3000	360	380	340	370	430	530
1X150	37,5	42,5	47,3	3500	410	430	375	410	490	600
1X185	39,3	44,3	49,3	4000	455	485	410	460	550	690
1X240	41,7	46,7	51,7	4650	520	560	470	540	650	820
1X300	44,2	49,2	54,4	5450	580	640	500	610	740	940
1X400	47,3	52,3	57,7	6350	650	730	530	690	840	1100
1X500	50,5	55,5	61,1	7600	710	830	570	780	930	1280
1X630	54,2	59,2	65,0	9150	760	940	620	890	1040	1480
1X800	60,5	65,5	71,6	11100	810	1060	660	990	1140	1690
1X1000	65,0	70,0	76,5	13400	860	1170	690	1090	1230	1900
3X50	65,1	71,4	78,2	9150	210		180		220	
3X70	68,8	75,1	82,1	10300	250		215		270	
3X95	72,6	78,9	86,1	11600	300		255		330	
3X120	76,3	82,6	90,0	12800	340		290		380	
3X150	79,3	85,6	93,2	14050	380		330		430	
3X185	83,4	89,7	97,5	15650	430		370		490	
3X240	88,8	95,1	103,3	18200	500		430		570	
3X300	93,9	100,2	108,8	21100	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	30,9	34,9	39,3	1740	170	175	170	170	195	230
1X70	32,6	36,6	41,0	1850	210	215	210	210	240	290
1X95	34,3	38,3	42,9	2100	250	260	245	250	295	355
1X120	35,9	39,9	44,5	2250	280	295	275	285	355	410
1X150	37,5	42,5	47,3	2600	320	330	300	320	380	465
1X185	39,3	44,3	49,3	2850	360	375	335	360	435	530
1X240	41,7	46,7	51,7	3150	415	440	380	420	510	630
1X300	44,2	49,2	54,4	3600	475	495	420	470	580	730
1X400	47,3	52,3	57,7	4000	540	570	455	540	670	860
1X500	50,5	55,5	61,1	4500	610	650	500	620	770	1010
1X630	54,2	59,2	65,0	5250	680	750	550	700	880	1180
1X800	60,5	65,5	71,6	6150	770	860	590	800	980	1370
1X1,000	65,0	70,0	76,5	7200	859	960	640	890	1080	1560
3X50	65,1	71,4	78,2	8300	160		135		170	
3X70	68,8	75,1	82,1	9050	195		165		210	
3X95	72,6	78,9	86,1	9800	230		200		250	
3X120	76,3	82,6	90,0	10600	265		225		295	
3X150	79,3	85,6	93,2	11350	300		255		330	
3X185	83,4	89,7	97,5	12250	335		290		385	
3X240	88,8	95,1	103,3	13700	380		335		450	
3X300	93,9	100,2	108,8	15500	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:	10	15	20	25	30	35	40
Correction factor	1,03	1,0	0,97	0,93	0,89	0,86	0,82

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.