

BS6622 AWA Single Core 6.35/11kV (12)kV

Armoured single core XLPE insulated PVC outer sheath - medium voltage power cable



Application

Electric cable with copper conductors, semi conductive conductor screen, XLPE insulation, semi conductive insulation screen, copper tape metallic screen of each core, PVC bedding, aluminium wires armour (AWA) and PVC outer sheath. For energy networks where mechanical stresses are expected. Suitable for underground installation or in ducts.

Construction

Conductor	: Class 2 stranded copper conductor according to BS EN 60228.
Conductor screen	: Semi conductive XLPE (cross linked polyethylene)
Insulation	: XLPE, cross linked polyethylene Type GP8 (BS7655)
Insulation screen	: Semi conductive XLPE (cross linked polyethylene)
Metallic screen	: Individual or collective overall copper tape screen (BS6622)
Filler	: PET (polyethylene Terephthalate)
Separator	: Binding tape
Bedding	: PVC (polyvinyl chloride) type MT1 (BS7655)
Armour	: AWA, aluminium wire armoured
Sheath	: PVC (polyvinyl chloride) type MT1 (BS7655)
Marking text	: E.g. "BS6622 AWA Single core 1x25 mm ² 6,35/11kv IEC60502-2 year xxxm"
Rated voltage	: 6.35/11 kV

Outer Sheath Colours

Available colours : Red or Black*

*other colours available on request

Standards applied

IEC60502-2, BS 6622 Cable design
IEC60332-1 Flame Retardant

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com

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Installation recommendations

Minimum Bending Radius : 15xD*
Permissible operating temp. of conductor : 0°C - 90°C

*12xD possible where bends are positioned adjacent to a joint or termination provided that the bending is carefully controlled by the use of a former.

Range and Dimensions

Article Code	Number of Cores	Cross-Section mm ²	Nominal Diameter			Approx. Weight kg/km
			Under armour mm	Over armour mm	Overall mm	
P14B01C050BAK**7	1	50	21.7	24.9	28.5	1200
P14B01C070BAK**7	1	70	23.0	26.2	30.0	1500
P14B01C095BAK**7	1	95	24.7	27.9	31.7	1600
P14B01C120BAK**7	1	120	26.7	29.9	33.9	2100
P14B01C150BAK**7	1	150	27.5	31.5	35.7	2500
P14B01C185BAK**7	1	185	29.3	33.3	40.0	2900
P14B01C240BAK**7	1	240	31.6	35.6	37.5	3600
P14B01C300BAK**7	1	300	34.6	38.6	43.0	4300
P14B01C400BAK**7	1	400	37.0	41.0	45.8	5200
P14B01C500BAK**7	1	500	40.5	45.5	50.5	6500
P14B01C630BAK**7	1	630	44.6	49.6	54.8	8000
P14B01C800BAK**7	1	800	48.8	53.8	59.2	9850
P14B01C1000BAK**7	1	1000	53.5	58.5	64.3	12100

** BK for Black and RD for Red outer sheath; example P14B01C070BAKBK11 or P14B01C070BAKRD11

Electrical characteristics / current carrying capacity

Number of Cores	Cross-Section mm ²	Continuous current rating					
		In ground Amps		In ducts Amps		In air Amps	
		Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
1	50	220	230	220	220	250	300
1	70	270	280	260	270	310	370
1	95	320	335	305	325	375	460
1	120	360	380	340	370	430	530
1	150	410	430	375	410	490	600
1	185	455	485	410	460	550	690
1	240	520	560	470	540	650	820
1	300	580	640	500	610	740	940
1	400	650	730	530	890	840	1100
1	500	710	830	570	780	930	1280
1	630	760	940	620	890	1040	1480
1	800	810	1060	660	990	1140	1690
1	1000	860	1170	690	1090	1230	1900

De-rating factors

Air temperature °C	25	30	35	40	45	50	55
De-rating factor	1.00	0.96	0.92	0.88	0.83	0.78	0.73
Ground temperature °C	10	15	20	25	30	35	40
De-rating factor	1.03	1.00	0.97	0.93	0.89	0.86	0.82
Ground Thermal resistivity km/W	0.9	1.0	1.2	1.5	2.0	2.5	3.0
De-rating factor	1.06	1.04	1.00	0.92	0.85	0.74	0.68
Dept of laying mtr	0.8	1.00	1.25	1.50	1.75	2.00	2.50
De-rating factor	1.00	0.97	0.95	0.94	0.93	0.91	0.90

NOTICE

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