

Power Cables To **IEC** Standard



Single-Core Cables, with Stranded Circular Copper Conductors, PVC Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit for 5 seconds:
 - 160 °C for sizes ≤ 300 mm²
 - 140 °C for sizes > 300 mm²



Nominal cross sectional area	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 70 °C							mm	Kg / km	
mm ²	Ω / km	Ω / km	A	A	A	A	A	A			
4	4.6100	5.5100	42	40	32	37	33	29	7.0	85	C212PA10100CBK51IMR
6	3.0800	3.6800	52	50	40	48	42	38	7.9	115	C213PA10100CBK51IMR
10	1.8300	2.1700	70	67	52	66	58	51	8.9	165	C314PA10100CBK51IMR
16	1.1500	1.3700	90	85	65	80	75	65	9.9	230	C315PA10100CBK51IMR
25	0.7270	0.8600	115	110	85	105	95	90	11.6	345	C316PA10100CBK51IMR
35	0.5240	0.6300	135	130	105	130	125	110	12.7	445	C317PA10100CBK51IMR
50	0.3870	0.4600	160	155	125	160	150	135	14.6	600	C318PA10100CBK51IMR
70	0.2680	0.3200	200	190	155	200	190	170	16.3	805	C319PA10100CBK51IMR
95	0.1930	0.2300	235	225	185	250	240	210	18.7	1085	C345PA10100CBK51IMR
120	0.1530	0.1900	270	255	210	285	275	245	20.4	1350	C346PA10100CBK51IMR
150	0.1240	0.1500	300	285	235	330	320	280	22.6	1655	C347PA10100CBK51IMR
185	0.0991	0.1200	345	325	270	380	370	320	24.9	2030	C348PA10100CBK51IMR
240	0.0754	0.0920	400	375	310	480	460	385	28.3	2675	C349PA10100CBK51IMR
300	0.0601	0.0750	450	420	350	550	530	450	31.1	3280	C350PA10100CBK51IMR
400	0.0470	0.0590	515	475	390	630	615	520	35.3	4350	C351PA10100CBK51IMF
500	0.0366	0.0480	580	525	435	720	700	600	38.8	5355	C352PA10100CBK51IMF
630	0.0283	0.0390	660	590	495	830	810	680	42.7	6685	C353PA10100CBK51IMF
800	0.0221	0.0290	740	650	555	940	920	775	47.2	8600	C354PA10100CBK51IMF
1000	0.0176	0.0250	820	710	605	1030	1010	860	52.0	10500	C355PA10100CBK51IMF

Single-Core Cables, with Stranded Circular Aluminum Conductors, PVC Insulated and PVC Sheathed

CONSTRUCTION

Conductor : Stranded circular aluminium conductor, as per Class 2 of IEC 60228.

Insulation : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.

Outer sheath : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit for 5 seconds:
 - 160 °C for sizes ≤ 300 mm²
 - 140 °C for sizes > 300 mm²



Nominal cross sectional area	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 70 °C							mm	Kg / km	
mm ²	Ω / km	Ω / km	A	A	A	A	A	A			
16	1.9100	2.2900	65	63	50	65	60	45	9.9	135	A315PA10100CBK51IMR
25	1.2000	1.4400	85	83	65	85	80	65	11.6	185	A316PA10100CBK51IMR
35	0.8680	1.0430	105	102	80	105	100	85	12.7	250	A317PA10100CBK51IMR
50	0.6410	0.7700	125	120	95	125	120	105	14.6	295	A318PA10100CBK51IMR
70	0.4430	0.5330	155	145	120	165	155	125	16.3	375	A319PA10100CBK51IMR
95	0.3200	0.3850	185	175	135	205	195	160	18.7	500	A345PA10100CBK51IMR
120	0.2530	0.3050	210	200	165	235	225	185	20.4	605	A346PA10100CBK51IMR
150	0.2060	0.2480	235	225	180	265	255	210	22.6	725	A347PA10100CBK51IMR
185	0.1640	0.1980	265	255	205	310	300	245	24.8	900	A348PA10100CBK51IMR
240	0.1250	0.1510	310	295	240	365	355	290	28.3	1150	A349PA10100CBK51IMR
300	0.1000	0.1220	355	335	270	420	405	335	31.1	1420	A350PA10100CBK51IMR
400	0.0778	0.0954	410	380	310	500	480	390	35.3	1750	A351PA10100CBK51IMR
500	0.0605	0.0751	465	430	355	580	560	460	38.8	2220	A352PA10100CBK51IMF
630	0.0469	0.0595	535	490	405	680	660	535	42.7	2750	A353PA10100CBK51IMF
800	0.0367	0.0470	600	530	450	765	745	620	47.2	3450	A354PA10100CBK51IMF
1000	0.0291	0.0370	665	585	495	840	820	690	52.0	4230	A355PA10100CBK51IMF

Multi-Core Cables, with Stranded Copper Conductors, PVC Insulated and PVC Sheathed

CONSTRUCTION

Conductor : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of IEC 60228.

Insulation : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.

Outer sheath : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

1.5	rm	12.1000	14.6000	24	19	20	10.1	120	C208PA10200CBK01IMR
2.5	rm	7.4100	8.8700	30	25	28	10.9	145	C210PA10200CBK01IMR
4	rm	4.6100	5.5400	40	32	39	12.9	205	C212PA10200CBK01IMR
6	rm	3.0800	3.6900	50	40	50	13.9	255	C213PA10200CBK01IMR
10	rm	1.8300	2.1900	65	55	66	15.8	390	C314PA10200CBK01IMR
16	rm	1.1500	1.3900	85	65	88	17.9	527	C315PA10200CBK01IMR
25	rm	0.7270	0.8700	110	85	116	21.3	770	C316PA10200CBK01IMR
35	rm	0.5240	0.6280	130	105	143	23.5	965	C317PA10200CBK01IMR

Three Core Cables

1.5	rm	12.1000	14.6000	21	18	18	10.6	145	C208PA10300CBK04IMR
2.5	rm	7.4100	8.8700	27	23	22	11.5	190	C210PA10300CBK04IMR
4	rm	4.6100	5.5400	35	30	31	13.6	270	C212PA10300CBK04IMR
6	rm	3.0800	3.6900	45	36	39	14.7	340	C213PA10300CBK04IMR
10	rm	1.8300	2.1900	60	48	53	16.9	510	C314PA10300CBK04IMR
16	rm	1.1500	1.3900	75	60	72	19.0	710	C315PA10300CBK04IMR
25	rm	0.7270	0.8700	100	80	94	22.7	1050	C316PA10300CBK04IMR
35	sm	0.5240	0.6280	120	95	110	22.8	1360	C417PA10300CBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

1.5	rm	12.1000	14.6000	21	18	18	11.4	180	C208PA10400CBK08IMR
2.5	rm	7.4100	8.8700	27	23	22	12.4	230	C210PA10400CBK08IMR
4	rm	4.6100	5.5400	35	30	31	14.8	335	C212PA10400CBK08IMR
6	rm	3.0800	3.6900	45	36	39	16.0	425	C213PA10400CBK08IMR
10	rm	1.8300	2.1900	60	48	53	18.5	650	C314PA10400CBK08IMR
16	rm	1.1500	1.3900	75	60	72	20.9	910	C315PA10400CBK08IMR
25	rm	0.7270	0.8700	100	80	94	25.0	1360	C316PA10400CBK08IMR
35	sm	0.5240	0.6280	120	95	110	25.1	1650	C417PA10400CBK08IMR
50	sm	0.3870	0.4640	145	115	138	29.3	2225	C418PA10400CBK08IMR
70	sm	0.2680	0.3220	175	145	171	32.9	3065	C419PA10400CBK08IMR
95	sm	0.1930	0.2320	210	165	209	37.8	4175	C445PA10400CBK08IMR
120	sm	0.1530	0.1850	240	195	242	41.2	5205	C446PA10400CBK08IMF
150	sm	0.1240	0.1510	270	220	275	45.9	6400	C447PA10400CBK08IMF
185	sm	0.0991	0.1210	300	245	314	50.7	7960	C448PA10400CBK08IMF
240	sm	0.0754	0.0840	345	290	374	57.0	10330	C449PA10400CBK08IMS
300	sm	0.0601	0.0770	390	320	440	63.3	12915	C450PA10400CBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6280 / 1.3900	120	95	110	24.0	1470	C435PA10400CBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4640 / 0.8700	145	115	138	28.1	2115	C436PA10400CBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3220 / 0.6280	175	145	171	31.4	2725	C437PA10400CBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2320 / 0.4640	210	165	209	36.1	3690	C438PA10400CBK08IMR
120 sm	70 sm	0.1530 / 0.2680	0.1850 / 0.3220	240	195	242	39.5	4675	C439PA10400CBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1510 / 0.3220	270	220	275	43.5	5580	C440PA10400CBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1210 / 0.2320	300	245	314	48.2	7025	C441PA10400CBK08IMF
240 sm	120 sm	0.0754 / 0.1530	0.0840 / 0.1850	345	290	374	54.2	9060	C442PA10400CBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0770 / 0.1510	390	320	440	60.0	11280	C443PA10400CBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, PVC Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area	ELECTRICAL DATA						DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight		
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in ducts	Laid in free air				
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km		
Two Core Cables									
10	rm	3.0800	3.3000	46	39	46	15.8	290	A314PA10200CBK01IMR
16	rm	1.9100	2.2900	60	46	62	17.9	370	A315PA10200CBK01IMR
25	rm	1.2000	1.4400	77	60	81	21.3	435	A316PA10200CBK01IMR
35	rm	0.8680	1.0430	103	83	114	23.5	505	A317PA10200CBK01IMR
Three Core Cables									
10	rm	3.0800	3.3000	42	34	37	16.9	320	A314PA10300CBK04IMR
16	rm	1.9100	2.2900	53	42	50	19.0	405	A315PA10300CBK04IMR
25	rm	1.2000	1.4400	70	56	66	22.7	570	A316PA10300CBK04IMR
35	sm	0.8680	1.0430	95	75	88	22.8	700	A417PA10300CBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.3000	42	34	37	18.5	395	A314PA10400CBK08IMR
16	rm	1.9100	2.2900	53	42	50	20.9	510	A315PA10400CBK08IMR
25	rm	1.2000	1.4400	70	56	66	25.0	715	A316PA10400CBK08IMR
35	sm	0.8680	1.0430	95	75	88	25.1	800	A417PA10400CBK08IMR
50	sm	0.6410	0.7710	115	85	105	29.3	1060	A418PA10400CBK08IMR
70	sm	0.4430	0.5330	135	110	132	32.9	1380	A419PA10400CBK08IMR
95	sm	0.3200	0.3850	165	130	160	37.8	1865	A445PA10400CBK08IMR
120	sm	0.2530	0.3050	185	150	187	41.2	2300	A446PA10400CBK08IMF
150	sm	0.2060	0.2490	210	170	215	45.9	2760	A447PA10400CBK08IMF
185	sm	0.1640	0.1990	235	195	248	50.7	3400	A448PA10400CBK08IMF
240	sm	0.1250	0.1510	275	225	292	57.0	4345	A449PA10400CBK08IMS
300	sm	0.1000	0.1230	310	260	347	63.3	5400	A450PA10400CBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.0430 / 2.2900	95	75	88	24.0	725	A435PA10400CBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.7710 / 1.4400	115	85	105	28.1	970	A436PA10400CBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5330 / 1.0430	135	110	132	31.4	1240	A437PA10400CBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.3850 / 0.7710	165	130	160	36.1	1660	A438PA10400CBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3050 / 0.5330	185	150	187	39.5	2040	A439PA10400CBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2490 / 0.5330	210	170	215	43.5	2435	A440PA10400CBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.1990 / 0.3850	235	195	248	48.2	3025	A441PA10400CBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1510 / 0.3050	275	225	292	54.2	3830	A442PA10400CBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1230 / 0.2490	310	260	347	60.0	4720	A443PA10400CBK08IMS

Multi-Core Cables, with Stranded Copper Conductors, PVC Insulated, Steel Tape Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Double layer of galvanized steel tapes.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

6	rm	3.0800	3.6900	50	40	50	16.9	460	C213PA1020GCBK01IMR
10	rm	1.8300	2.1900	65	55	66	18.7	585	C314PA1020GCBK01IMR
16	rm	1.1500	1.3900	85	65	88	20.7	760	C315PA1020GCBK01IMR
25	rm	0.7270	0.8700	110	85	116	24.1	1025	C316PA1020GCBK01IMR
35	rm	0.5240	0.6280	130	105	143	26.3	1325	C317PA1020GCBK01IMR

Three Core Cables

4	rm	4.6100	5.5400	35	30	31	16.4	440	C212PA1030GCBK04IMR
6	rm	3.0800	3.6900	45	36	39	17.5	525	C213PA1030GCBK04IMR
10	rm	1.8300	2.1900	60	48	53	19.7	725	C314PA1030GCBK04IMR
16	rm	1.1500	1.3900	75	60	72	21.8	950	C315PA1030GCBK04IMR
25	rm	0.7270	0.8700	100	80	94	25.5	1340	C316PA1030GCBK04IMR
35	sm	0.5240	0.6280	120	95	110	25.8	1560	C417PA1030GCBK04IMR

Nominal cross sectional area	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in ducts	Laid in free air			
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km	

Four Core Cables

4	rm	4.6100	5.5400	35	30	31	17.6	520	C212PA1040GCBK08IMR
6	rm	3.0800	3.6900	45	36	39	18.8	630	C213PA1040GCBK08IMR
10	rm	1.8300	2.1900	60	48	53	21.3	885	C314PA1040GCBK08IMR
16	rm	1.1500	1.3900	75	60	72	23.7	1180	C315PA1040GCBK08IMR
25	rm	0.7270	0.8700	100	80	94	27.8	1680	C316PA1040GCBK08IMR
35	sm	0.5240	0.6280	120	95	110	27.9	1970	C417PA1040GCBK08IMR
50	sm	0.3870	0.4640	145	115	138	32.7	2640	C418PA1040GCBK08IMR
70	sm	0.2680	0.3220	175	145	171	37.5	3915	C419PA1040GCBK08IMR
95	sm	0.1930	0.2320	210	165	209	42.4	5140	C445PA1040GCBK08IMF
120	sm	0.1530	0.1850	240	195	242	46.2	6310	C446PA1040GCBK08IMF
150	sm	0.1240	0.1510	270	220	275	50.9	7615	C447PA1040GCBK08IMF
185	sm	0.0991	0.1210	300	245	314	56.1	9365	C448PA1040GCBK08IMS
240	sm	0.0754	0.0840	345	290	374	62.6	12790	C449PA1040GCBK08IMS
300	sm	0.0601	0.0770	390	320	440	68.7	14645	C450PA1040GCBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6280 / 1.3900	120	95	110	26.8	1770	C435PA1040GCBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4640 / 0.8700	145	115	138	30.9	2365	C436PA1040GCBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3220 / 0.6280	175	145	171	34.6	3155	C437PA1040GCBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2320 / 0.4640	210	165	209	40.7	4625	C438PA1040GCBK08IMF
120 sm	70 sm	0.1530 / 0.2680	0.1850 / 0.3220	240	195	242	44.5	5730	C439PA1040GCBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1510 / 0.3220	270	220	275	48.5	6740	C440PA1040GCBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1210 / 0.2320	300	245	314	53.2	8300	C441PA1040GCBK08IMS
240 sm	120 sm	0.0754 / 0.1530	0.0840 / 0.1850	345	290	374	59.6	10550	C442PA1040GCBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0770 / 0.1510	390	320	440	65.4	12920	C443PA1040GCBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, PVC Insulated, Steel Tape Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Double layer of galvanized steel tapes.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

10	rm	3.0800	3.3000	46	39	46	16.7	455	A314PA1020GCBK01IMR
16	rm	1.9100	2.2900	60	46	62	20.7	540	A315PA1020GCBK01IMR
25	rm	1.2000	1.4400	77	60	81	24.1	730	A316PA1020GCBK01IMR
35	rm	0.8680	1.0430	103	83	115	26.3	880	A317PA1020GCBK01IMR

Three Core Cables

10	rm	3.0800	3.3000	42	34	37	19.7	535	A314PA1030GCBK04IMR
16	rm	1.9100	2.2900	53	42	50	21.8	625	A315PA1030GCBK04IMR
25	rm	1.2000	1.4400	70	56	66	25.5	855	A316PA1030GCBK04IMR
35	sm	0.8680	1.0430	95	75	88	25.8	1250	A417PA1030GCBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.3000	42	34	37	21.3	630	A314PA1040GCBK08IMR
16	rm	1.9100	2.2900	53	42	50	23.7	775	A315PA1040GCBK08IMR
25	rm	1.2000	1.4400	70	56	66	27.8	1035	A316PA1040GCBK08IMR
35	sm	0.8680	1.0430	95	75	88	27.9	1115	A417PA1040GCBK08IMR
50	sm	0.6410	0.7710	115	85	105	32.7	1475	A418PA1040GCBK08IMR
70	sm	0.4430	0.5330	135	110	132	37.5	2225	A419PA1040GCBK08IMR
95	sm	0.3200	0.3850	165	130	160	42.4	2830	A445PA1040GCBK08IMR
120	sm	0.2530	0.3050	185	150	187	46.2	3360	A446PA1040GCBK08IMF
150	sm	0.2060	0.2490	210	170	215	50.9	3975	A447PA1040GCBK08IMF
185	sm	0.1640	0.1990	235	195	248	56.1	4815	A448PA1040GCBK08IMF
240	sm	0.1250	0.1510	275	225	292	62.6	5925	A449PA1040GCBK08IMS
300	sm	0.1000	0.1230	310	260	347	68.7	7125	A450PA1040GCBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.0430 / 2.2900	95	75	88	26.8	1030	A435PA1040GCBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.7710 / 1.4400	115	85	105	30.9	1330	A436PA1040GCBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5330 / 1.0430	135	110	132	34.6	1675	A437PA1040GCBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.3850 / 0.7710	165	130	160	40.7	2585	A438PA1040GCBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3050 / 0.5330	185	150	187	44.5	3100	A439PA1040GCBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2490 / 0.5330	210	170	215	48.5	3590	A440PA1040GCBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.1990 / 0.3850	235	195	248	53.2	4300	A441PA1040GCBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1510 / 0.3050	275	225	292	59.6	5325	A442PA1040GCBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1230 / 0.2490	310	260	347	65.4	6365	A443PA1040GCBK08IMS

Multi-Core Cables, with Stranded Copper Conductors, PVC Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

4	rm	4.6100	5.5400	40	32	39	17.8	645	C212PA1020WCBK01IMR
6	rm	3.0800	3.6900	50	40	50	18.8	735	C213PA1020WCBK01IMR
10	rm	1.8300	2.1900	65	55	66	21.6	800	C314PA1020WCBK01IMR
16	rm	1.1500	1.3900	85	65	88	22.4	1085	C315PA1020WCBK01IMR
25	rm	0.7270	0.8700	110	85	116	26.9	1760	C316PA1020WCBK01IMR
35	rm	0.5240	0.6280	130	105	143	29.5	2120	C317PA1020WCBK01IMR

Three Core Cables

4	rm	4.6100	5.5400	35	30	31	18.5	730	C212PA1030WCBK04IMR
6	rm	3.0800	3.6900	45	36	39	19.6	835	C213PA1030WCBK04IMR
10	rm	1.8300	2.1900	60	48	53	21.8	1080	C314PA1030WCBK04IMR
16	rm	1.1500	1.3900	75	60	72	23.9	1350	C315PA1030WCBK04IMR
25	rm	0.7270	0.8700	100	80	94	28.6	1985	C316PA1030WCBK04IMR
35	sm	0.5240	0.6280	120	100	110	28.8	2420	C417PA1030WCBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

4	rm	4.6100	5.5400	37	29	29	19.7	840	C212PA1040WCBK08IMR
6	rm	3.0800	3.6900	47	37	37	20.9	965	C213PA1040WCBK08IMR
10	rm	1.8300	2.1900	63	50	50	23.4	1275	C314PA1040WCBK08IMR
16	rm	1.1500	1.3900	79	68	68	26.5	1780	C315PA1040WCBK08IMR
25	rm	0.7270	0.8700	105	89	89	30.6	2380	C316PA1040WCBK08IMR
35	sm	0.5240	0.6280	120	95	116	30.9	2690	C417PA1040WCBK08IMR
50	sm	0.3870	0.4640	145	115	143	37.1	3870	C418PA1040WCBK08IMR
70	sm	0.2680	0.3220	175	145	176	40.7	4900	C419PA1040WCBK08IMR
95	sm	0.1930	0.2320	210	165	215	46.6	6665	C445PA1040WCBK08IMF
120	sm	0.1530	0.1850	240	195	248	50.6	7990	C446PA1040WCBK08IMF
150	sm	0.1240	0.1510	270	220	281	55.1	9445	C447PA1040WCBK08IMF
185	sm	0.0991	0.1210	300	245	319	60.5	11425	C448PA1040WCBK08IMS
240	sm	0.0754	0.0840	345	290	380	66.8	14205	C449PA1040WCBK08IMS
300	sm	0.0601	0.0770	390	320	446	72.9	17870	C450PA1040WCBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6280 / 1.3900	120	95	116	29.8	2460	C435PA1040WCBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4640 / 0.8700	145	115	143	35.5	3550	C436PA1040WCBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3220 / 0.6280	175	145	176	39.2	4480	C437PA1040WCBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2320 / 0.4640	210	165	215	42.6	5475	C438PA1040WCBK08IMF
120 sm	70 sm	0.1530 / 0.2680	0.1850 / 0.3220	240	195	248	48.9	7385	C439PA1040WCBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1510 / 0.3220	270	220	281	52.7	8505	C440PA1040WCBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1210 / 0.2320	300	245	319	57.6	10260	C441PA1040WCBK08IMS
240 sm	120 sm	0.0754 / 0.1530	0.0840 / 0.1850	345	290	380	64.0	12755	C442PA1040WCBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0770 / 0.1510	390	320	446	69.8	15330	C443PA1040WCBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, PVC Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST1 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

10	rm	3.0800	3.3000	46	39	46	21.6	680	A314PA1020WCBK01IMR
16	rm	1.9100	2.2900	60	46	62	22.4	825	A315PA1020WCBK01IMR
25	rm	1.2000	1.4400	77	60	81	26.9	1450	A316PA1020WCBK01IMR
35	rm	0.8680	1.0430	103	83	115	29.5	2250	A317PA1020WCBK01IMR

Three Core Cables

10	rm	3.0800	3.3000	42	34	37	21.8	915	A314PA1030WCBK04IMR
16	rm	1.9100	2.2900	53	42	50	23.9	1525	A315PA1030WCBK04IMR
25	rm	1.2000	1.4400	70	56	66	28.6	1875	A316PA1030WCBK04IMR
35	sm	0.8680	1.0430	95	75	88	28.8	2330	A417PA1030WCBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.3000	42	34	37	23.4	1420	A314PA1040WCBK08IMR
16	rm	1.9100	2.2900	53	42	50	26.5	1720	A315PA1040WCBK08IMR
25	rm	1.2000	1.4400	70	56	66	30.6	2110	A316PA1040WCBK08IMR
35	sm	0.8680	1.0430	95	75	88	30.9	1780	A417PA1040WCBK08IMR
50	sm	0.6410	0.7710	115	85	105	37.1	3040	A418PA1040WCBK08IMR
70	sm	0.4430	0.5330	135	110	138	40.7	3750	A419PA1040WCBK08IMR
95	sm	0.3200	0.3850	165	130	165	46.6	4730	A445PA1040WCBK08IMR
120	sm	0.2530	0.3050	185	150	193	50.6	5570	A446PA1040WCBK08IMF
150	sm	0.2060	0.2490	210	170	220	55.1	6430	A447PA1040WCBK08IMF
185	sm	0.1640	0.1990	235	195	253	60.5	7790	A448PA1040WCBK08IMF
240	sm	0.1250	0.1510	275	225	297	66.8	9180	A449PA1040WCBK08IMS
300	sm	0.1000	0.1230	310	260	352	72.9	10590	A450PA1040WCBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.0430 / 2.2900	95	75	94	29.8	1550	A435PA1040WCBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.7710 / 1.4400	115	85	110	35.5	2300	A436PA1040WCBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5330 / 1.0430	135	110	138	39.2	2820	A437PA1040WCBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.3850 / 0.7710	165	130	165	42.6	3410	A438PA1040WCBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3050 / 0.5330	185	150	193	48.9	4370	A439PA1040WCBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2490 / 0.5330	210	170	220	52.7	5080	A440PA1040WCBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.1990 / 0.3850	235	195	253	57.6	5950	A441PA1040WCBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1510 / 0.3050	275	225	297	64.0	7230	A442PA1040WCBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1230 / 0.2490	310	260	352	69.8	8540	A443PA1040WCBK08IMS

Single-Core Cables, with Stranded Circular Copper Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds



Nominal cross sectional area	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 90 °C							mm	Kg / km	
mm ²	Ω / km	Ω / km	A	A	A	A	A	A			
4	4.6100	5.8800	55	51	40	53	47	40	6.8	80	C212XA10100MBK51IMR
6	3.0800	3.9300	68	65	53	65	59	53	7.3	102	C213XA10100MBK51IMR
10	1.8300	2.3300	98	86	68	84	79	68	8.3	150	C314XA10100MBK51IMR
16	1.1500	1.4700	116	111	87	116	110	95	9.3	210	C315XA10100MBK51IMR
25	0.7270	0.9270	150	142	110	143	137	121	11.0	315	C316XA10100MBK51IMR
35	0.5240	0.6690	179	172	137	179	173	152	12.1	410	C317XA10100MBK51IMR
50	0.3870	0.4940	210	200	163	221	210	184	13.8	555	C318XA10100MBK51IMR
70	0.2680	0.3430	263	247	200	278	268	236	15.7	760	C319XA10100MBK51IMR
95	0.1930	0.2480	310	294	242	347	336	289	17.7	1015	C345XA10100MBK51IMR
120	0.1530	0.1970	357	336	273	404	394	341	19.6	1280	C346XA10100MBK51IMR
150	0.1240	0.1600	394	373	310	457	446	389	21.8	1570	C347XA10100MBK51IMR
185	0.0991	0.1290	452	425	352	530	520	441	23.9	1920	C348XA10100MBK51IMR
240	0.0754	0.0990	520	488	404	651	641	536	27.1	2530	C349XA10100MBK51IMR
300	0.0601	0.0810	588	546	457	824	756	620	29.7	3105	C350XA10100MBK51IMR
400	0.0470	0.0638	672	620	515	893	872	714	33.9	4135	C351XA10100MBK51IMF
500	0.0366	0.0517	761	693	572	1008	987	814	37.4	5110	C352XA10100MBK51IMF
630	0.0283	0.0425	872	777	651	1155	1134	956	41.9	6455	C353XA10100MBK51IMF
800	0.0221	0.0292	957	861	735	1313	1292	1092	46.8	8260	C354XA10100MBK51IMF
1000	0.0176	0.0234	1082	935	798	1449	1428	1208	51.5	10075	C355XA10100MBK51IMF

Single-Core Cables, with Stranded Circular Aluminum Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds



Nominal cross sectional area mm ²	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 90 °C							mm	Kg / km	
16	1.9100	2.4500	89	87	66	89	84	63	9.3	115	A315XA10100MBK51IMR
25	1.2000	1.5400	113	110	84	116	110	95	11.0	165	A316XA10100MBK51IMR
35	0.8680	1.1130	137	131	105	142	137	121	12.1	205	A317XA10100MBK51IMR
50	0.6410	0.8220	163	155	121	173	168	147	13.8	260	A318XA10100MBK51IMR
70	0.4430	0.5690	200	189	152	221	215	179	15.7	340	A319XA10100MBK51IMR
95	0.3200	0.4110	236	226	179	284	273	215	17.7	450	A345XA10100MBK51IMR
120	0.2530	0.3250	278	263	215	326	315	242	19.6	550	A346XA10100MBK51IMR
150	0.2060	0.2650	310	294	236	373	362	299	21.8	670	A347XA10100MBK51IMR
185	0.1640	0.2120	352	336	267	436	420	336	23.9	830	A348XA10100MBK51IMR
240	0.1250	0.1630	410	389	315	515	499	399	27.1	1050	A349XA10100MBK51IMR
300	0.1000	0.1310	467	436	357	578	567	462	29.7	1300	A350XA10100MBK51IMR
400	0.0778	0.1000	541	504	410	693	677	541	33.9	1610	A351XA10100MBK51IMR
500	0.0605	0.0870	609	567	467	809	788	630	37.4	2000	A352XA10100MBK51IMF
630	0.0469	0.0620	698	646	536	945	924	746	41.9	2520	A353XA10100MBK51IMF
800	0.0367	0.0560	788	704	599	1071	1050	851	46.8	3150	A354XA10100MBK51IMF
1000	0.0291	0.0470	872	767	651	1176	1155	966	51.5	3870	A355XA10100MBK51IMF

Multi-Core Cables, with Stranded Copper Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper Conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area	ELECTRICAL DATA						DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight		
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in ducts	Laid in free air				
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km		

Two Core Cables

1.5	rm	12.1000	15.4000	30	25	25	9.6	105	C208XA10200MBK01MR
2.5	rm	7.4100	9.4500	37	32	34	10.5	135	C210XA10200MBK01MR
4	rm	4.6100	5.8800	50	40	46	11.7	175	C212XA10200MBK01MR
6	rm	3.0800	3.9300	63	52	60	12.7	225	C213XA10200MBK01MR
10	rm	1.8300	2.3300	82	69	79	14.7	340	C314XA10200MBK01MR
16	rm	1.1500	1.4700	106	83	105	16.7	470	C315XA10200MBK01MR
25	rm	0.7270	0.9270	139	107	139	20.1	695	C316XA10200MBK01MR
35	rm	0.5240	0.6690	166	134	166	22.3	875	C317XA10200MBK01MR

Three Core Cables

1.5	rm	12.1000	15.4000	26	23	22	10.1	130	C208XA10300MBK04IMR
2.5	rm	7.4100	9.4500	35	29	32	11.0	165	C210XA10300MBK04IMR
4	rm	4.6100	5.8800	45	36	41	12.3	225	C212XA10300MBK04IMR
6	rm	3.0800	3.9300	57	45	50	13.4	295	C213XA10300MBK04IMR
10	rm	1.8300	2.3300	75	60	68	15.6	455	C314XA10300MBK04IMR
16	rm	1.1500	1.4700	97	75	89	17.7	645	C315XA10300MBK04IMR
25	rm	0.7270	0.9270	128	102	120	21.4	965	C316XA10300MBK04IMR
35	sm	0.5240	0.6690	155	120	145	21.5	1260	C417XA10300MBK04IMR

Nominal cross sectional area	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in ducts	Laid in free air			
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km	

Four Core Cables

1.5	rm	12.1000	15.4000	26	23	22	10.6	150	C208XA10400MBK08IMR
2.5	rm	7.4100	9.4500	35	29	32	11.9	205	C210XA10400MBK08IMR
4	rm	4.6100	5.8800	45	36	41	13.4	280	C212XA10400MBK08IMR
6	rm	3.0800	3.9300	57	45	50	14.6	365	C213XA10400MBK08IMR
10	rm	1.8300	2.3300	75	60	68	17.0	575	C314XA10400MBK08IMR
16	rm	1.1500	1.4700	97	75	89	19.4	825	C315XA10400MBK08IMR
25	rm	0.7270	0.9270	128	102	120	23.5	1245	C316XA10400MBK08IMR
35	sm	0.5240	0.6690	155	120	145	23.6	1530	C417XA10400MBK08IMR
50	sm	0.3870	0.4940	185	145	179	27.1	2060	C418XA10400MBK08IMR
70	sm	0.2680	0.3430	220	180	225	31.4	2905	C419XA10400MBK08IMR
95	sm	0.1930	0.2480	265	210	268	35.1	3910	C445XA10400MBK08IMR
120	sm	0.1530	0.1970	305	245	310	39.2	4915	C446XA10400MBK08IMF
150	sm	0.1240	0.1600	335	275	352	43.7	6035	C447XA10400MBK08IMF
185	sm	0.0991	0.1290	375	310	404	48.7	7540	C448XA10400MBK08IMF
240	sm	0.0754	0.0990	435	365	483	54.5	9785	C449XA10400MBK08IMS
300	sm	0.0601	0.0810	490	405	562	60.1	12190	C450XA10400MBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6690 / 1.4700	155	120	142	22.5	1360	C435XA10400MBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4940 / 0.9270	185	145	179	25.9	1835	C436XA10400MBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3430 / 0.6690	220	180	215	29.7	2540	C437XA10400MBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2480 / 0.4940	265	210	268	33.6	3435	C438XA10400MBK08IMR
120 sm	70 sm	0.1530 / 0.2680	0.1970 / 0.3430	305	245	310	37.5	4400	C439XA10400MBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1600 / 0.3430	335	275	352	41.3	5255	C440XA10400MBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1290 / 0.2480	375	310	404	46.2	6640	C441XA10400MBK08IMF
240 sm	120 sm	0.0754 / 0.1530	0.0990 / 0.1970	435	365	483	51.5	8555	C442XA10400MBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0810 / 0.1600	490	405	562	56.8	10640	C443XA10400MBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in ducts	Laid in free air			
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km	

Two Core Cables

10	rm	3.0800	3.9500	57	48	55	14.7	335	A314XA10200MBK01IMR
16	rm	1.9100	2.4500	74	58	73	16.7	450	A315XA10200MBK01IMR
25	rm	1.2000	1.5400	97	75	97	20.1	640	A316XA10200MBK01IMR
35	rm	0.8680	1.1130	128	106	120	22.3	780	A317XA10200MBK01IMR

Three Core Cables

10	rm	3.0800	3.9500	52	42	48	15.6	375	A314XA10300MBK04IMR
16	rm	1.9100	2.4500	68	52	62	17.7	605	A315XA10300MBK04IMR
25	rm	1.2000	1.5400	90	71	84	21.4	835	A316XA10300MBK04IMR
35	sm	0.8680	1.1130	120	95	105	21.5	1050	A417XA10300MBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.9500	52	42	48	17.0	450	A314PA10400MBK08IMR
16	rm	1.9100	2.4500	68	52	62	19.4	700	A315PA10400MBK08IMR
25	rm	1.2000	1.5400	90	71	84	23.5	925	A316PA10400MBK08IMR
35	sm	0.8680	1.1130	120	95	110	23.6	800	A417PA10400MBK08IMR
50	sm	0.6410	0.8220	145	110	136	27.1	950	A418PA10400MBK08IMR
70	sm	0.4430	0.5690	175	140	168	31.4	1260	A419PA10400MBK08IMR
95	sm	0.3200	0.4110	210	165	205	35.1	1650	A445XA10400MBK08IMR
120	sm	0.2530	0.3250	235	190	236	39.2	2060	A446XA10400MBK08IMF
150	sm	0.2060	0.2650	265	215	278	43.7	2520	A447XA10400MBK08IMF
185	sm	0.1640	0.2120	290	240	315	48.7	3140	A448XA10400MBK08IMF
240	sm	0.1250	0.1630	340	280	378	54.5	4020	A449XA10400MBK08IMS
300	sm	0.1000	0.1310	390	315	446	60.1	4930	A450XA10400MBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.1130 / 2.4500	121	96	110	22.5	610	A435XA10400MBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.8220 / 1.5400	145	116	136	25.9	925	A436XA10400MBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5690 / 1.1130	178	142	171	29.7	1255	A437XA10400MBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.4110 / 0.8220	214	171	211	33.6	1630	A438XA10400MBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3250 / 0.5690	243	195	246	37.5	2030	A439XA10400MBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2650 / 0.5690	272	220	282	41.3	2515	A440XA10400MBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.2120 / 0.4110	309	250	326	46.2	3095	A441XA10400MBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1630 / 0.3250	359	292	388	51.5	3900	A442XA10400MBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1310 / 0.2650	406	331	449	56.8	4795	A443XA10400MBK08IMS

Multi-Core Cables, with Stranded Copper Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Double layer of galvanized steel tapes.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

6	rm	3.0800	3.9300	62	51	59	15.5	405	C213XA1020GMBK01IMR
10	rm	1.8300	2.3300	81	68	78	17.5	530	C314XA1020GMBK01IMR
16	rm	1.1500	1.4700	105	82	103	19.5	685	C315XA1020GMBK01IMR
25	rm	0.7270	0.9270	138	106	137	22.1	930	C316XA1020GMBK01IMR
35	rm	0.5240	0.6690	164	132	164	23.8	1245	C317XA1020GMBK01IMR

Three Core Cables

6	rm	3.0800	3.9300	56	44	49	16.2	465	C213XA1030GMBK04IMR
10	rm	1.8300	2.3300	74	59	67	18.4	650	C314XA1030GMBK04IMR
16	rm	1.1500	1.4700	96	74	88	20.5	870	C315XA1030GMBK04IMR
25	rm	0.7270	0.9270	127	100	120	24.2	1235	C316XA1030GMBK04IMR
35	sm	0.5240	0.6690	153	119	143	22.8	1370	C417XA1030GMBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

6	rm	3.0800	3.9300	56	44	49	17.4	555	C213XA1040GMBK08IMR
10	rm	1.8300	2.3300	74	59	67	19.8	795	C314XA1040GMBK08IMR
16	rm	1.1500	1.4700	96	74	88	22.2	1075	C315XA1040GMBK08IMR
25	rm	0.7270	0.9270	127	100	120	26.3	1540	C316XA1040GMBK08IMR
35	sm	0.5240	0.6690	153	119	143	26.4	1830	C417XA1040GMBK08IMR
50	sm	0.3870	0.4940	185	145	178	30.1	2415	C418XA1040GMBK08IMR
70	sm	0.2680	0.3430	220	180	215	34.6	3335	C419XA1040GMBK08IMR
95	sm	0.1930	0.2480	265	210	268	39.7	4815	C445XA1040GMBK08IMF
120	sm	0.1530	0.1970	305	245	310	43.8	5910	C446XA1040GMBK08IMF
150	sm	0.1240	0.1600	335	275	352	48.7	7195	C447XA1040GMBK08IMF
185	sm	0.0991	0.1290	375	310	404	53.7	8830	C448XA1040GMBK08IMS
240	sm	0.0754	0.0990	435	365	483	60.0	11285	C449XA1040GMBK08IMS
300	sm	0.0601	0.0810	490	405	562	65.5	13835	C450XA1040GMBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6690 / 1.4700	153	119	143	25.3	1640	C435XA1040GMBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4940 / 0.9270	185	145	178	28.7	2160	C436XA1040GMBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3430 / 0.6690	220	180	215	33.1	2960	C437XA1040GMBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2480 / 0.4940	265	210	268	38.0	4280	C438XA1040GMBK08IMF
120 sm	70 sm	0.1530 / 0.2680	0.1970 / 0.3430	305	245	310	42.1	5365	C439XA1040GMBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1600 / 0.3430	335	275	352	46.3	6355	C440XA1040GMBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1290 / 0.2480	375	310	404	51.2	7865	C441XA1040GMBK08IMS
240 sm	120 sm	0.0754 / 0.1530	0.0990 / 0.1970	435	365	483	57.1	10000	C442XA1040GMBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0810 / 0.1600	490	405	562	62.2	12205	C443XA1040GMBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Double layer of galvanized steel tapes.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code	
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km		
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A				
Two Core Cables									
10	rm	3.0800	3.9500	56	47	55	17.5	480	A314XA1020GMBK01IMR
16	rm	1.9100	2.4500	73	57	72	19.5	595	A315XA1020GMBK01IMR
25	rm	1.2000	1.5400	96	74	96	22.1	810	A316XA1020GMBK01IMR
35	rm	0.8680	1.1130	129	105	126	25.1	950	A317XA1020GMBK01IMR
Three Core Cables									
10	rm	3.0800	3.9500	52	41	47	18.4	555	A314XA1030GMBK04IMR
16	rm	1.9100	2.4500	67	52	62	20.5	685	A315XA1030GMBK04IMR
25	rm	1.2000	1.5400	89	70	84	24.2	925	A316XA1030GMBK04IMR
35	sm	0.8680	1.1130	120	95	110	24.5	1110	A417XA1030GMBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.9500	52	41	47	19.8	635	A314XA1040GMBK08IMR
16	rm	1.9100	2.4500	67	52	62	22.2	795	A315XA1040GMBK08IMR
25	rm	1.2000	1.5400	89	70	84	26.3	1090	A316XA1040GMBK08IMR
35	sm	0.8680	1.1130	120	95	110	26.4	970	A417XA1040GMBK08IMR
50	sm	0.6410	0.8220	145	110	136	30.1	1490	A418XA1040GMBK08IMR
70	sm	0.4430	0.5690	175	140	168	34.6	1750	A419XA1040GMBK08IMR
95	sm	0.3200	0.4110	210	165	205	39.7	2540	A445XA1040GMBK08IMR
120	sm	0.2530	0.3250	235	190	236	43.8	3020	A446XA1040GMBK08IMF
150	sm	0.2060	0.2650	265	215	278	48.7	3670	A447XA1040GMBK08IMF
185	sm	0.1640	0.2120	290	240	315	53.7	4380	A448XA1040GMBK08IMF
240	sm	0.1250	0.1630	340	280	378	60.0	4430	A449XA1040GMBK08IMS
300	sm	0.1000	0.1310	390	315	446	65.5	6510	A450XA1040GMBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.1130 / 2.4500	120	95	110	25.3	895	A435XA1040GMBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.8220 / 1.5400	145	110	136	28.7	1200	A436XA1040GMBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5690 / 1.1130	175	140	168	33.1	1550	A437XA1040GMBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.4110 / 0.8220	210	165	205	38.0	1970	A438XA1040GMBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3250 / 0.5690	235	190	236	42.1	2710	A439XA1040GMBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2650 / 0.5690	265	215	278	46.3	3290	A440XA1040GMBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.2120 / 0.4110	290	240	315	51.2	3980	A441XA1040GMBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1630 / 0.3250	340	280	378	57.1	4910	A442XA1040GMBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1310 / 0.2650	390	315	446	62.2	5920	A443XA1040GMBK08IMS

Multi-Core Cables, with Stranded Copper Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

4	rm	4.6100	5.8800	51	41	47	16.6	580	C212XA1020WMBK01IMR
6	rm	3.0800	3.9300	64	53	61	17.6	660	C213XA1020WMBK01IMR
10	rm	1.8300	2.3300	83	70	80	19.6	835	C314XA1020WMBK01IMR
16	rm	1.1500	1.4700	107	84	106	21.6	1020	C315XA1020WMBK01IMR
25	rm	0.7270	0.9270	140	108	140	24.2	1335	C316XA1020WMBK01IMR
35	rm	0.5240	0.6690	168	135	168	27.5	1755	C317XA1020WMBK01IMR

Three Core Cables

4	rm	4.6100	5.8800	46	37	42	17.2	650	C212XA1030WMBK04IMR
6	rm	3.0800	3.9300	58	46	51	18.3	755	C213XA1030WMBK04IMR
10	rm	1.8300	2.3300	76	61	69	20.5	965	C314XA1030WMBK04IMR
16	rm	1.1500	1.4700	98	76	90	22.6	1240	C315XA1030WMBK04IMR
25	rm	0.7270	0.9270	130	103	120	27.0	1850	C316XA1030WMBK04IMR
35	sm	0.5240	0.6690	158	122	147	27.3	2220	C417XA1030WMBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

4	rm	4.6100	5.8800	46	37	42	18.3	740	C212XA1040WMBK08IMR
6	rm	3.0800	3.9300	58	46	51	19.5	860	C213XA1040WMBK08IMR
10	rm	1.8300	2.3300	76	61	69	21.9	1155	C314XA1040WMBK08IMR
16	rm	1.1500	1.4700	98	76	90	25.0	1630	C315XA1040WMBK08IMR
25	rm	0.7270	0.9270	130	103	122	29.1	2220	C316XA1040WMBK08IMR
35	sm	0.5240	0.6690	158	122	147	29.4	2520	C417XA1040WMBK08IMR
50	sm	0.3870	0.4940	185	145	184	33.1	3200	C418XA1040WMBK08IMR
70	sm	0.2680	0.3430	220	180	220	39.2	4645	C419XA1040WMBK08IMR
95	sm	0.1930	0.2480	265	210	273	42.9	5870	C445XA1040WMBK08IMF
120	sm	0.1530	0.1970	305	245	315	48.4	7555	C446XA1040WMBK08IMF
150	sm	0.1240	0.1600	335	275	375	53.1	8985	C447XA1040WMBK08IMF
185	sm	0.0991	0.1290	375	310	410	57.9	10760	C448XA1040WMBK08IMS
240	sm	0.0754	0.0990	435	365	488	64.1	13480	C449XA1040WMBK08IMS
300	sm	0.0601	0.0810	490	405	562	69.7	16215	C450XA1040WMBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.5240 / 1.1500	0.6690 / 1.4700	158	122	147	27.7	2250	C435XA1040WMBK08IMR
50 sm	25 rm	0.3870 / 0.7270	0.4940 / 0.9270	185	145	184	31.3	2860	C436XA1040WMBK08IMR
70 sm	35 sm	0.2680 / 0.5240	0.3430 / 0.6690	220	180	220	37.5	4240	C437XA1040WMBK08IMR
95 sm	50 sm	0.1930 / 0.3870	0.2480 / 0.4940	265	210	273	41.2	5290	C438XA1040WMBK08IMF
120 sm	70 sm	0.1530 / 0.2680	0.1970 / 0.3430	305	245	315	45.3	6475	C439XA1040WMBK08IMF
150 sm	70 sm	0.1240 / 0.2680	0.1600 / 0.3430	335	275	375	50.5	8055	C440XA1040WMBK08IMF
185 sm	95 sm	0.0991 / 0.1930	0.1290 / 0.2480	375	310	410	55.4	9735	C441XA1040WMBK08IMS
240 sm	120 sm	0.0754 / 0.1530	0.0990 / 0.1970	435	365	488	60.3	11780	C442XA1040WMBK08IMS
300 sm	150 sm	0.0601 / 0.1240	0.0810 / 0.1600	490	405	562	66.4	14435	C443XA1040WMBK08IMS

Multi-Core Cables, with Stranded Aluminum Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of IEC 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to IEC 60502-1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type ST2 to IEC 60502-1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 0.6/1$ kV
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

10	rm	3.0800	3.9500	56	47	60	19.6	635	A314XA1020WMBK01IMR
16	rm	1.9100	2.4500	73	57	79	21.6	770	A315XA1020WMBK01IMR
25	rm	1.2000	1.5400	96	74	101	24.2	1370	A316XA1020WMBK01IMR
35	rm	0.8680	1.1130	129	105	131	27.5	1560	A317XA1020WMBK01IMR

Three Core Cables

10	rm	3.0800	3.9500	52	41	52	20.5	715	A314XA1030WMBK04IMR
16	rm	1.9100	2.4500	67	52	67	22.6	870	A315XA1030WMBK04IMR
25	rm	1.2000	1.5400	89	70	89	27.0	1515	A316XA1030WMBK04IMR
35	sm	0.8680	1.1130	120	95	115	27.3	1770	A417XA1030WMBK04IMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

10	rm	3.0800	3.9500	52	41	52	21.9	785	A314XA1040WMBK08IMR
16	rm	1.9100	2.4500	67	52	67	25.0	1335	A315XA1040WMBK08IMR
25	rm	1.2000	1.5400	89	70	89	29.1	1630	A316XA1040WMBK08IMR
35	sm	0.8680	1.1130	120	95	115	29.4	1700	A417XA1040WMBK08IMR
50	sm	0.6410	0.8220	145	110	141	33.1	2330	A418XA1040WMBK08IMR
70	sm	0.4430	0.5690	175	140	173	39.2	2760	A419XA1040WMBK08IMR
95	sm	0.3200	0.4110	210	165	210	42.9	3340	A445XA1040WMBK08IMR
120	sm	0.2530	0.3250	235	190	241	48.4	4320	A446XA1040WMBK08IMF
150	sm	0.2060	0.2650	265	215	283	53.1	5080	A447XA1040WMBK08IMF
185	sm	0.1640	0.2120	290	240	320	57.9	5990	A448XA1040WMBK08IMF
240	sm	0.1250	0.1630	340	280	383	64.1	7220	A449XA1040WMBK08IMS
300	sm	0.1000	0.1310	390	315	451	69.7	8440	A450XA1040WMBK08IMS

Four Core Cables with Reduced Neutral

35 sm	16 rm	0.8680 / 1.9100	1.1130 / 2.4500	120	95	115	27.7	1500	A435XA1040WMBK08IMR
50 sm	25 rm	0.6410 / 1.2000	0.8220 / 1.5400	145	110	141	31.3	1870	A436XA1040WMBK08IMR
70 sm	35 sm	0.4430 / 0.8680	0.5690 / 1.1130	175	140	173	37.5	2600	A437XA1040WMBK08IMR
95 sm	50 sm	0.3200 / 0.6410	0.4110 / 0.8220	210	165	210	41.2	3090	A438XA1040WMBK08IMR
120 sm	70 sm	0.2530 / 0.4430	0.3250 / 0.5690	235	190	241	45.3	3690	A439XA1040WMBK08IMF
150 sm	70 sm	0.2060 / 0.4430	0.2650 / 0.5690	265	215	283	50.5	4700	A440XA1040WMBK08IMF
185 sm	95 sm	0.1640 / 0.3200	0.2120 / 0.4110	290	240	320	55.4	5550	A441XA1040WMBK08IMF
240 sm	120 sm	0.1250 / 0.2530	0.1630 / 0.3250	340	280	383	60.3	6560	A442XA1040WMBK08IMS
300 sm	150 sm	0.1000 / 0.2060	0.1310 / 0.2650	390	315	451	66.4	7820	A443XA1040WMBK08IMS

Power Cables To **BS** Standard



Multi-Core Cables, with Stranded Copper Conductors, PVC Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to BS 7655-3.1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type TM1 to BS 7655-4.1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

4	rm	4.6100	5.5400	40	32	39	15.1	470	C212PA1020WCBK01BMR
6	rm	3.0800	3.6900	50	40	50	16.3	560	C213PA1020WCBK01BMR
10	rm	1.8300	2.1900	65	55	66	19.2	815	C314PA1020WCBK01BMR
16	rm	1.1500	1.3900	85	65	88	21.2	1035	C315PA1020WCBK01BMR
25	rm	0.7270	0.8700	110	85	116	25.7	1595	C316PA1020WCBK01BMR
35	rm	0.5240	0.6280	130	105	143	27.9	1910	C317PA1020WCBK01BMR

Three Core Cables

4	rm	4.6100	5.5400	35	30	31	15.8	535	C212PA1030WCBK04BMR
6	rm	3.0800	3.6900	45	36	39	17.8	735	C213PA1030WCBK04BMR
10	rm	1.8300	2.1900	60	48	53	20.6	910	C314PA1030WCBK04BMR
16	rm	1.1500	1.3900	75	60	72	22.8	1160	C315PA1030WCBK04BMR
25	rm	0.7270	0.8700	100	80	94	27.5	1785	C316PA1030WCBK04BMR
35	sm	0.5240	0.6280	120	100	110	26.9	2000	C417PA1030WCBK04BMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

4	rm	4.6100	5.5400	37	29	29	17.8	720	C212PA1040WCBK08BMR
6	rm	3.0800	3.6900	47	37	37	19.0	850	C213PA1040WCBK08BMR
10	rm	1.8300	2.1900	63	50	50	22.1	1085	C314PA1040WCBK08BMR
16	rm	1.1500	1.3900	79	68	68	25.8	1585	C315PA1040WCBK08BMR
25	rm	0.7270	0.8700	105	89	89	29.9	2165	C316PA1040WCBK08BMR
35	sm	0.5240	0.6280	120	95	116	30.4	2515	C417PA1040WCBK08BMR
50	sm	0.3870	0.4640	145	115	143	35.3	3545	C418PA1040WCBK08BMR
70	sm	0.2680	0.3220	175	145	176	38.9	4515	C419PA1040WCBK08BMR
95	sm	0.1930	0.2320	210	165	215	42.6	5757	C445PA1040WCBK08BMF
120	sm	0.1530	0.1850	240	195	248	47.6	7430	C446PA1040WCBK08BMF
150	sm	0.1240	0.1510	270	220	281	52.1	8755	C447PA1040WCBK08BMF
185	sm	0.0991	0.1210	300	245	319	57.3	10710	C448PA1040WCBK08BMS
240	sm	0.0754	0.0840	345	290	380	63.6	13380	C449PA1040WCBK08BMS
300	sm	0.0601	0.0770	390	320	446	69.7	16176	C450PA1040WCBK08BMS

Multi-Core Cables, with Stranded Aluminum Conductors, PVC Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Polyvinyl chloride (PVC) insulation, rated 70 °C at normal operation to BS 7655-3.1.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type TM1 to BS 7655-4.1.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 70 °C
- Max. admissible temperature of conductor at short circuit 160 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 70 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

16	rm	1.9100	2.2900	60	46	62	21.2	845	A315PA1020WCBK01BMR
25	rm	1.2000	1.4400	77	60	81	25.7	1285	A316PA1020WCBK01BMR
35	rm	0.8680	1.0430	103	83	115	27.9	1485	A317PA1020WCBK01BMR

Three Core Cables

16	rm	1.9100	2.2900	53	42	50	22.8	875	A315PA1030WCBK04BMR
25	rm	1.2000	1.4400	70	56	66	27.5	1325	A316PA1030WCBK04BMR
35	sm	0.8680	1.0430	95	75	88	26.9	1380	A417PA1030WCBK04BMR

Nominal cross sectional area	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 70 °C	Laid in ground	Laid in ducts	Laid in free air			
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km	

Four Core Cables

16	rm	1.9100	2.2900	53	42	50	25.8	1205	A315PA1040WCBK08BMR
25	rm	1.2000	1.4400	70	56	66	29.9	1550	A316PA1040WCBK08BMR
35	sm	0.8680	1.0430	95	75	88	30.4	1695	A417PA1040WCBK08BMR
50	sm	0.6410	0.7710	115	85	105	35.3	2405	A418PA1040WCBK08BMR
70	sm	0.4430	0.5330	135	110	138	38.9	2915	A419PA1040WCBK08BMR
95	sm	0.3200	0.3850	165	130	165	42.6	3490	A445PA1040WCBK08BMR
120	sm	0.2530	0.3050	185	150	193	47.6	4530	A446PA1040WCBK08BMF
150	sm	0.2060	0.2490	210	170	220	52.1	5255	A447PA1040WCBK08BMF
185	sm	0.1640	0.1990	235	195	253	57.3	6170	A448PA1040WCBK08BMF
240	sm	0.1250	0.1510	275	225	297	63.6	7450	A449PA1040WCBK08BMS
300	sm	0.1000	0.1230	310	260	352	69.7	8815	A450PA1040WCBK08BMS

Single-Core Cables, with Stranded Circular Copper Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular copper conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to BS 7655-3.1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type 9 to BS 7655-4.2.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds



Nominal cross sectional area	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 90 °C							mm	Kg / km	
mm ²	Ω / km	Ω / km	A	A	A	A	A	A			
50	0.3870	0.4940	210	200	163	221	210	184	12.9	530	C318XA10100MBK51BMR
70	0.2680	0.3430	263	247	200	278	268	236	14.7	730	C319XA10100MBK51BMR
95	0.1930	0.2480	310	294	242	347	336	289	16.5	980	C345XA10100MBK51BMR
120	0.1530	0.1970	357	336	273	404	394	341	18.0	1225	C346XA10100MBK51BMR
150	0.1240	0.1600	394	373	310	457	446	389	20.1	1490	C347XA10100MBK51BMR
185	0.0991	0.1290	452	425	352	530	520	441	22.2	1870	C348XA10100MBK51BMR
240	0.0754	0.0990	520	488	404	651	641	536	24.9	2420	C349XA10100MBK51BMR
300	0.0601	0.0810	588	546	457	824	756	620	27.7	3020	C350XA10100MBK51BMR
400	0.0470	0.0638	672	620	515	893	872	714	30.9	3855	C351XA10100MBK51BMF
500	0.0366	0.0517	761	693	572	1008	987	814	34.9	4985	C352XA10100MBK51BMF
630	0.0283	0.0425	872	777	651	1155	1134	956	39.3	6290	C353XA10100MBK51BMF
800	0.0221	0.0292	957	861	735	1313	1292	1092	43.8	8090	C354XA10100MBK51BMF
1000	0.0176	0.0234	1082	935	798	1449	1428	1208	51.5	10075	C355XA10100MBK51BMF

Single-Core Cables, with Stranded Circular Aluminum Conductors, XLPE Insulated and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular aluminum conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to BS 7655-3.1.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type 9 to BS 7655-4.2.







APPLICATION

For use indoors - in cable trenches or ducts; and outdoors - in power stations, industrial plants and switchgears if mechanical protection is not required, or in applications where the cable is not exposed to mechanical damage.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds



Nominal cross sectional area	ELECTRICAL DATA								DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating						Approx. overall diameter	Approx. overall weight	
			Laid in ground			Laid in free air					
	DC at 20 °C	AC at 90 °C							mm	Kg / km	
mm ²	Ω / km	Ω / km	A	A	A	A	A	A	mm	Kg / km	
50	0.6410	0.8220	163	155	121	173	168	147	12.9	235	A318XA10100MBK51BMR
70	0.4430	0.5690	200	189	152	221	215	179	14.7	310	A319XA10100MBK51BMR
95	0.3200	0.4110	236	226	179	284	273	215	16.5	405	A345XA10100MBK51BMR
120	0.2530	0.3250	278	263	215	326	315	242	18.0	495	A346XA10100MBK51BMR
150	0.2060	0.2650	310	294	236	373	362	299	20.1	605	A347XA10100MBK51BMR
185	0.1640	0.2120	352	336	267	436	420	336	22.2	740	A348XA10100MBK51BMR
240	0.1250	0.1630	410	389	315	515	499	399	24.9	945	A349XA10100MBK51BMR
300	0.1000	0.1310	467	436	357	578	567	462	27.7	1160	A350XA10100MBK51BMR
400	0.0778	0.1000	541	504	410	693	677	541	30.9	1465	A351XA10100MBK51BMR
500	0.0605	0.0870	609	567	467	809	788	630	34.9	1855	A352XA10100MBK51BMR
630	0.0469	0.0620	698	646	536	945	924	746	39.3	2355	A353XA10100MBK51BMF
800	0.0367	0.0560	788	704	599	1071	1050	851	43.8	2990	A354XA10100MBK51BMF
1000	0.0291	0.0470	872	767	651	1176	1155	966	51.5	3870	A355XA10100MBK51BMF

Multi-Core Cables, with Stranded Copper Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Plain annealed stranded circular (rm) or sector shaped (sm) copper conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to BS 7655-1.3.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type 9 to BS 7655-4.2.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Two Core Cables

4	rm	4.6100	5.8800	51	41	47	14.7	445	C212XA1020WMBK01BMR
6	rm	3.0800	3.9300	64	53	61	15.7	520	C213XA1020WMBK01BMR
10	rm	1.8300	2.3300	83	70	80	17.1	640	C314XA1020WMBK01BMR
16	rm	1.1500	1.4700	107	84	106	19.8	930	C315XA1020WMBK01BMR
25	rm	0.7270	0.9270	140	108	140	23.2	1290	C316XA1020WMBK01BMR
35	rm	0.5240	0.6690	168	135	168	26.5	1770	C317XA1020WMBK01BMR

Three Core Cables

4	rm	4.6100	5.8800	46	37	42	15.3	500	C212XA1030WMBK04BMR
6	rm	3.0800	3.9300	58	46	51	16.4	595	C213XA1030WMBK04BMR
10	rm	1.8300	2.3300	76	61	69	19.1	815	C314XA1030WMBK04BMR
16	rm	1.1500	1.4700	98	76	90	21.5	1065	C315XA1030WMBK04BMR
25	rm	0.7270	0.9270	130	103	120	26.2	1665	C316XA1030WMBK04BMR
35	sm	0.5240	0.6690	158	122	147	25.7	1865	C417XA1030WMBK04BMR

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km	
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A			

Four Core Cables

4	rm	4.6100	5.8800	46	37	42	16.4	575	C212XA1040WMBK08BMR
6	rm	3.0800	3.9300	58	46	51	18.5	795	C213XA1040WMBK08BMR
10	rm	1.8300	2.3300	76	61	69	20.4	960	C314XA1040WMBK08BMR
16	rm	1.1500	1.4700	98	76	90	23.1	1280	C315XA1040WMBK08BMR
25	rm	0.7270	0.9270	130	103	122	28.2	1990	C316XA1040WMBK08BMR
35	sm	0.5240	0.6690	158	122	147	28.7	2335	C417XA1040WMBK08BMR
50	sm	0.3870	0.4940	185	145	184	32.4	2975	C418XA1040WMBK08BMR
70	sm	0.2680	0.3430	220	180	220	37.4	4270	C419XA1040WMBK08BMR
95	sm	0.1930	0.2480	265	210	273	40.1	5375	C445XA1040WMBK08BMF
120	sm	0.1530	0.1970	305	245	315	45.4	6980	C446XA1040WMBK08BMF
150	sm	0.1240	0.1600	335	275	375	49.9	8280	C447XA1040WMBK08BMF
185	sm	0.0991	0.1290	375	310	410	54.9	10103	C448XA1040WMBK08BMS
240	sm	0.0754	0.0990	435	365	488	60.9	12660	C449XA1040WMBK08BMS
300	sm	0.0601	0.0810	490	405	562	66.5	15305	C450XA1040WMBK08BMS

Multi-Core Cables, with Stranded Aluminum Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CONSTRUCTION

- Conductor** : Stranded circular (rm) or sector shaped (sm) aluminum conductor, as per Class 2 of BS EN 60228.
- Insulation** : An extruded layer of Cross linked polyethylene (XLPE) insulation, rated 90 °C at normal operation to BS 7655-1.3.
- Bedding** : An extruded layer of Polyvinyl chloride (PVC).
- Armouring** : Single layer of round galvanized steel wires.
- Outer sheath** : An extruded layer of Polyvinyl chloride (PVC) sheathing compound type 9 to BS 7655-4.2.



APPLICATION

For outdoor installations in power stations, industrial plants and switchgears if mechanical protection is required or in applications where mechanical damages are expected to occur.

TECHNICAL DATA

- Nominal voltage $U_0/U = 600 / 1000$ V
- Power frequency test voltage 3.5 kV for 5 minutes
- Max. admissible temperature of conductor at normal operation 90 °C
- Max. admissible temperature of conductor at short circuit 250 °C for 5 seconds

Nominal cross sectional area mm ²	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code	
	Max. Conductor Resistance		Current Rating			Approx. overall diameter mm	Approx. overall weight Kg / km		
	DC at 20 °C Ω / km	AC at 90 °C Ω / km	Laid in ground A	Laid in ducts A	Laid in free air A				
Two Core Cables									
16	rm	1.9100	2.4500	73	57	79	19.8	740	A315XA1020WMBK01BMR
25	rm	1.2000	1.5400	96	74	101	23.2	980	A316XA1020WMBK01BMR
35	rm	0.8680	1.1130	129	105	131	26.5	1340	A317XA1020WMBK01BMR
Three Core Cables									
16	rm	1.9100	2.4500	67	52	67	21.5	780	A315XA1030WMBK04BMR
25	rm	1.2000	1.5400	89	70	89	26.2	1205	A316XA1030WMBK04BMR
35	sm	0.8680	1.1130	120	95	115	25.7	1245	A417XA1030WMBK04BMR

Nominal cross sectional area	ELECTRICAL DATA					DIMENSIONS AND WEIGHTS		AES Code
	Max. Conductor Resistance		Current Rating			Approx. overall diameter	Approx. overall weight	
	DC at 20 °C	AC at 90 °C	Laid in ground	Laid in ducts	Laid in free air			
mm ²	Ω / km	Ω / km	A	A	A	mm	Kg / km	

Four Core Cables

16	rm	1.9100	2.4500	67	52	67	23.1	900	A315XA1040WMBK08BMR
25	rm	1.2000	1.5400	89	70	89	28.2	1370	A316XA1040WMBK08BMR
35	sm	0.8680	1.1130	120	95	115	28.7	1510	A417XA1040WMBK08BMR
50	sm	0.6410	0.8220	145	110	141	32.4	1835	A418XA1040WMBK08BMR
70	sm	0.4430	0.5690	175	140	173	37.4	2665	A419XA1040WMBK08BMR
95	sm	0.3200	0.4110	210	165	210	40.1	3095	A445XA1040WMBK08BMR
120	sm	0.2530	0.3250	235	190	241	45.4	4070	A446XA1040WMBK08BMF
150	sm	0.2060	0.2650	265	215	283	49.9	4775	A447XA1040WMBK08BMF
185	sm	0.1640	0.2120	290	240	320	54.9	5550	A448XA1040WMBK08BMF
240	sm	0.1250	0.1630	340	280	383	60.9	6720	A449XA1040WMBK08BMS
300	sm	0.1000	0.1310	390	315	451	66.5	7925	A450XA1040WMBK08BMS