

PowerAmp-A 07BN4-AF

Highly flexible, heavy duty aluminium power cable insulated with excellent rubber materials



Construction

Conductor	: Aluminium, thin strands forming a flexible conductor class 5
Core Insulation	: EPR 90 °C, <i>EN50363-1:2011</i>
Individual Core tape	: PET Tape separates around the conductor for easy stripping
Outer Sheath	: EM7 to <i>EN50363-2-1:2011</i>
Marking text	: E.g. PowerAmp-ALUMINIUM 07BN4-AF 1x120mm ² 450/750V 2016 Dekra Certified Quality 2189765 CE
Cable Standard	: <i>EN50255-2-21</i> Dekra type tested and certified
Rated Voltage	: 450/750 V
Testing Voltage	: 3,5 kV

Core Identification

Single Core Cables	: White inner sheath
Multi-Core Cables	: 3 cores; Green/yellow, blue, brown 4 cores; Green/yellow, brown, black, grey 5 cores; Green/yellow, blue, brown, black, grey

Outer Sheath Colours

Available colours	: Standard black. Some phase colours are available from stock Other sheath colours available by request.
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Installation recommendations

Min. Bending Radius during Installation	: 8xD
Min. Bending Radius Fix Installed	: 6xD
Max. Conductor Operating Temperature	: 90°C

Standards applied

IEC60332-1, IEC60332-3-24	Flame Retardant
IEC60811-2-1	Ozon and Oil Resistancy
EN50565 (HD516), IEC60364-5-52, BS7671, VDE 0298-4 & NFC32-102-4	Guide to use

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Range and Dimensions

Article Code	Number of Cores	Size Cross-Section in mm ²	Approx. Diameter over Conductor in mm	Insulation Thickness in mm	Approx. Overall Diameter in mm	Approx. Total Weight in kg/km
E98A01C010EAKBK3	1	10	4.50	1.2	10.7	143
E98A01C016EAKBK3	1	16	5.50	1.2	11.9	179
*E98A01C025EAKBK3	1	25	6.79	1.4	13.7	244
*E98A01C035EAKBK3	1	35	8.3	1.4	15.7	313
*E98A01C050EAKBK3	1	50	9.82	1.6	18.0	414
*E98A01C070EAKBK3	1	70	11.7	1.6	20.3	530
*E98A01C095EAKBK3	1	95	13.4	1.8	22.8	671
*E98A01C120EAKBK3	1	120	15.2	1.8	25.0	810
*E98A01C150EAKBK3	1	150	16.9	2.0	27.5	978
*E98A01C185EAKBK3	1	185	18.9	2.2	30.3	1179
*E98A01C240EAKBK3	1	240	21.7	2.4	33.7	1465
*E98A01C300EAKBK3	1	300	24.5	2.6	37.1	1781
E98A01C400EAKBK3	1	400	28.3	2.8	41.7	2260
E98A03C006EFFBK03	3	6	3.39	1.0	16.2	329
E98A03C010EFFBK03	3	10	4.50	1.2	21.8	594
E98A03C016EFFBK03	3	16	5.50	1.2	24.4	751
E98A03C025EFFBK03	3	25	6.79	1.4	28.6	1041
E98A03C035EFFBK03	3	35	8.30	1.4	32.6	1335
E98A03C050EFFBK03	3	50	9.82	1.6	37.5	1774
E98A03C070EFFBK03	3	70	11.70	1.6	42.2	2258
E98A03C095EFFBK03	3	95	13.40	1.8	47.8	2904
E98A03C120EFFBK03	3	120	15.20	1.8	52.2	3475
E98A03C150EFFBK03	3	150	16.90	2.0	57.2	4222
E98A03C185EFFBK03	3	185	18.90	2.2	63.6	5123
E98A03C240EFFBK03	3	240	22.70	2.4	71.9	6563
E98A04C006EBEBK3	4	6	3.39	1.0	18.0	403
E98A04C010EBEBK3	4	10	4.50	1.2	23.9	709
E98A04C016EBEBK3	4	16	5.50	1.2	26.7	894
E98A04C025EBEBK3	4	25	6.79	1.4	31.8	1278
E98A04C035EBEBK3	4	35	8.30	1.4	36.1	1644
E98A04C050EBEBK3	4	50	9.82	1.6	41.5	2155
E98A04C070EBEBK3	4	70	11.7	1.6	46.9	2767
E98A04C095EBEBK3	4	95	13.4	1.8	53.4	3595
E98A04C120EBEBK3	4	120	15.2	1.8	58.0	4257
E98A04C150EBEBK3	4	150	16.9	2.0	64.1	5187
E98A04C185EBEBK3	4	185	18.9	2.2	70.9	6311
E98A04C240EBEBK3	4	240	21.7	2.4	80.0	8055
E98A05C006EBDBK3	5	6	3.39	1.0	20.0	482
E98A05C010EBDBK3	5	10	4.50	1.2	26.2	833
E98A05C016EBDBK3	5	16	5.50	1.2	29.5	1066
E98A05C025EBDBK3	5	25	6.79	1.4	35.1	1517
E98A05C035EBDBK3	5	35	8.30	1.4	39.7	1910
E98A05C050EBDBK3	5	50	9.82	1.6	46.0	2577
E98A05C070EBDBK3	5	70	11.7	1.6	52.2	3327
E98A05C095EBDBK3	5	95	13.4	1.8	59.0	4265
E98A05C120EBDBK3	5	120	15.2	1.8	63.9	5014
E98A05C150EBDBK3	5	150	16.9	2.0	70.6	6100
E98A05C185EBDBK3	5	185	18.9	2.2	78.3	7454
E98A05C240EBDBK3	5	240	21.7	2.4	88.3	9509

T : +31 (0)168 468 100

E : sales@incore-cables.com

I : www.incore-cables.com



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Electrical Characteristics

Article Code	Number of Cores	Size Cross-Section in mm ²	M.C.C.R. Parallel Laying IN AIR in Amperes	M.C.C.R. Trefoil Laying IN AIR in Amperes	Maximum Short-Circuit Current For 1 second* in Amperes	Voltage Drop 3 phase system at Cos(φ)=1 in V/A/km
E98A01C010EAKBK3	1	10	78	61	945	6.85
E98A01C016EAKBK3	1	16	104	81	1512	4.25
*E98A01C025EAKBK3	1	25	139	109	2362	2.68
*E98A01C035EAKBK3	1	35	171	136	3307	1.95
*E98A01C050EAKBK3	1	50	207	166	4724	1.45
*E98A01C070EAKBK3	1	70	260	209	6614	1.02
*E98A01C095EAKBK3	1	95	317	257	8976	0.76
*E98A01C120EAKBK3	1	120	367	299	11K3	0.62
*E98A01C150EAKBK3	1	150	419	342	14K1	0.53
*E98A01C185EAKBK3	1	185	483	397	17479	0.45
*E98A01C240EAKBK3	1	240	577	475	22K6	0.38
*E98A01C300EAKBK3	1	300	668	551	28K3	0.33
E98A01C400EAKBK3	1	400	789	653	37K7	0.30
E98A03C006EFFBK03	3	6	47	-	567	11.35
E98A03C010EFFBK03	3	10	63	-	945	6.84
E98A03C016EFFBK03	3	16	84	-	1512	4.24
E98A03C025EFFBK03	3	25	111	-	2362	2.67
E98A03C035EFFBK03	3	35	136	-	3307	1.93
E98A03C050EFFBK03	3	50	163	-	4724	1.43
E98A03C070EFFBK03	3	70	211	-	6614	0.99
E98A03C095EFFBK03	3	95	256	-	8976	0.72
E98A03C120EFFBK03	3	120	295	-	11338	0.58
E98A03C150EFFBK03	3	150	334	-	14173	0.48
E98A03C185EFFBK03	3	185	382	-	17479	0.39
E98A03C240EFFBK03	3	240	448	-	22676	0.31
E98A04C006EBEBK3	4	6	40	-	567	12.2
E98A04C010EBEBK3	4	10	55	-	944	6.84
E98A04C016EBEBK3	4	16	73	-	1511	4.24
E98A04C025EBEBK3	4	25	96	-	2362	2.67
E98A04C035EBEBK3	4	35	119	-	3307	1.93
E98A04C050EBEBK3	4	50	143	-	4724	1.43
E98A04C070EBEBK3	4	70	179	-	6614	0.99
E98A04C095EBEBK3	4	95	216	-	8976	0.73
E98A04C0120EBEBK3	4	120	253	-	11.3 KA	0.58
E98A04C0150EBEBK3	4	150	287	-	14.1 KA	0.48
E98A04C0185EBEBK3	4	185	328	-	17.4	0.39
E98A04C0240EBEBK3	4	240	395	-	22.6KA	0.31
*E98A05C006EBDBK3	5	6	43	-	567	11.35
*E98A05C010EBDBK3	5	10	58	-	945	6.84
*E98A05C016EBDBK3	5	16	76	-	1512	4.24
*E98A05C025EBDBK3	5	25	100	-	2362	2.67
*E98A05C035EBDBK3	5	35	124	-	3.3kA	1.93
*E98A05C050EBDBK3	5	50	149	-	4.7kA	1.43
E98A05C070EBDBK3	5	70	186	-	6.6kA	0.99
E98A05C095EBDBK3	5	95	225	-	8.9kA	0.73
E98A05C120EBDBK3	5	120	264	-	11.3kA	0.58
E98A05C150EBDBK3	5	150	300	-	14.1kA	0.48
E98A05C185EBDBK3	5	185	343	-	17.4kA	0.39
E98A05C240EBDBK3	5	240	412	-	22.6kA	0.31

Laid Parallel in air is calculated with a distance from cable axis to cable axis of 2 x D (D is cable overall diameter) Note: Above values based on Cos Phi = 1.0, f=50Hz and conform IEC agreed standards or generally accepted in practice, in order to compare and calculate additional local circuit corrections and de-ratings.

NOTICE

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T : +31 (0)168 468 100

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I : www.incore-cables.com

