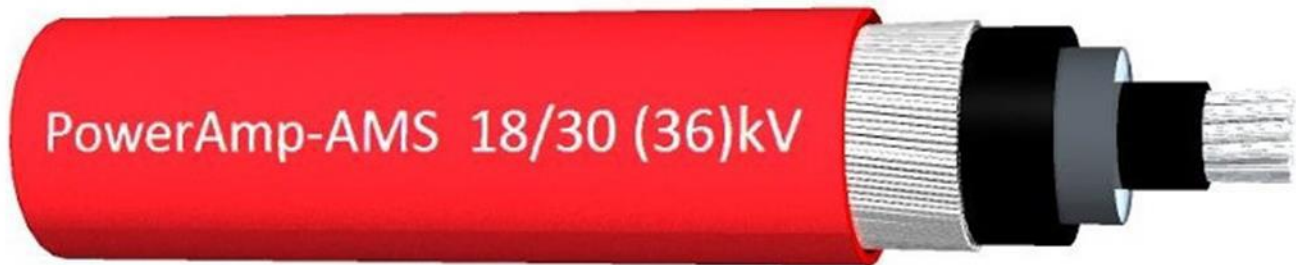


PowerAmp-AMS 18/30 (36)kV

Highly flexible, stranded aluminium power cable insulated with excellent rubber materials



Application

For use as connection in switch-gear where very small bending radius is required.

Construction

Conductor	: Highly flexible stranded aluminium
Conductor screen	: Semi conductive extruded layer
Insulation	: EPR compound, 3GI3 of VDE0250 T 813
Insulation screen	: Semi conductive extruded layer
Tape	: Semi conductive tape
Copper screen	: Spiral of tinned copper wires
Outer sheath	: CSP rubber compound, heavy duty, EM7 of HD 22.1
Marking text	: E.g. "PowerAmp-AMS 1x185 mm ² 18/30 (36) kV IEC60502-2 CE"
Rated voltage (U ₀)	: 18/30 kV
Highest system voltage (U _m)	: 36 kV

Core Identification

Insulation	: Natural
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Outer Sheath Colours

Available colours	: Red*
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*other colours available on request

Installation recommendations

Min. Bending Radius during Installation	: 10xD
Min. Bending Radius Fix Installed	: 8xD
Max. Conductor Operating Temperature	: 90°C

Standards applied

IEC60332-3-22 2000-10	Flame Retardant
ISO 4892-82	UV Resistant

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Range and Dimensions

Article Code	Number of Cores	Size Cross-Section in mm ²	Strand diameter ± mm	Nominal diameter over conductor ± mm	Nominal insulation thickness ± mm	Nominal diameter over semicon ± mm	Nominal diameter sheath ± mm	Nominal overall cable weight ± in kg/km
E98B01C025EAKRD11	1	25	0.4	7.1	8	26.51	32.8	1342
E98B01C035EAKRD11	1	35	0.4	9.0	8	28.39	34.6	1483
E98B01C050EAKRD11	1	50	0.4	10.8	8	30.12	36.6	1648
E98B01C070EAKRD11	1	70	0.5	12.8	8	32.20	38.8	1853
E98B01C095EAKRD11	1	95	0.5	14.2	8	33.52	40.2	1997
E98B01C120EAKRD11	1	120	0.5	16.0	8	35.32	42.6	2285
E98B01C150EAKRD11	1	150	0.5	18.4	8	37.75	45.2	2586
E98B01C185EAKRD11	1	185	0.5	19.0	8	38.32	45.8	2771
E98B01C240EAKRD11	1	240	0.5	22.7	8	42.07	49.7	3139
E98B01C300EAKRD11	1	300	0.5	25.5	8	44.88	52.7	3529
E98B01C400EAKRD11	1	400	0.5	29.5	8	48.82	57.1	4123
E98B01C500EAKRD11	1	500	0.5	32.6	8	51.92	60.4	4629

Electrical Characteristics

Article Code	Number of Cores	Size Cross-Section in mm ²	Conductor DC resist. at 20°C in Ohm/km	M.C.C.R. parallel in air in Amps	Max. short circuit current 1 sec. in Amps
E98B01C025EAKRD11	1	25	1.280	135	2460
E98B01C035EAKRD11	1	35	0.929	166	3430
E98B01C050EAKRD11	1	50	0.686	201	4860
E98B01C070EAKRD11	1	70	0.474	252	6780
E98B01C095EAKRD11	1	95	0.342	304	9170
E98B01C120EAKRD11	1	120	0.271	352	11550
E98B01C150EAKRD11	1	150	0.220	405	14410
E98B01C185EAKRD11	1	185	0.176	461	17750
E98B01C240EAKRD11	1	240	0.134	548	22980
E98B01C300EAKRD11	1	300	0.107	633	28680
E98B01C400EAKRD11	1	400	0.0832	747	38200
E98B01C500EAKRD11	1	500	0.0647	870	47700

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.

M.C.C.R. Maximum Continuous Current Rating in air at 30°C. Buried at 20°C and 60 depth with a thermal soil resistivity of 1 K.m/W.

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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