PowerAmp-AMS 6/10 (12)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 mm2 6/10 (12) kV IEC60502-2 CE"
Rated voltage (Uo)	: 6/10 kV
Highest system voltage (Um)	: 12 kV

Core Identification

Insulation	: Natural

Outer Sheath Colours

Available colours	: Red*

*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

T : +31 (0)168 468 100
E : sales@incore-cables.com
I : www.incore-cables.com

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Range and Dimensions

Article Code	Number of Cores	Size Cross-Section in mm²	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
E98B01C025EAKRD12	1	25	0.4	7.1	3.4	17.31	23.2	714
E98B01C035EAKRD12	1	35	0.4	9.0	3.4	19.19	25.0	809
E98B01C050EAKRD12	1	50	0.4	10.8	3.4	20.92	26.8	915
E98B01C070EAKRD12	1	70	0.5	12.8	3.4	23.00	28.8	1050
E98B01C095EAKRD12	1	95	0.5	14.2	3.4	24.32	30.4	1177
E98B01C120EAKRD12	1	120	0.5	16.0	3.4	26.12	32.8	1384
E98B01C150EAKRD12	1	150	0.5	18.4	3.4	28.55	35.2	1637
E98B01C185EAKRD12	1	185	0.5	19.0	3.4	29.12	36.0	1803
E98B01C240EAKRD12	1	240	0.5	22.7	3.4	32.87	39.9	2097
E98B01C300EAKRD12	1	300	0.5	25.5	3.4	35.68	42.9	2412
E98B01C400EAKRD12	1	400	0.5	29.5	3.4	39.62	47.1	2879
E98B01C500EAKRD12	1	500	0.5	32.6	3.4	42.72	50.4	3303

Electrical Characteristics

Article Code	Number of Cores	Size Cross-Section in mm²	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
E98B01C025EAKRD12	1	25	1,280	140	2460
E98B01C035EAKRD12	1	35	0,929	173	3430
E98B01C050EAKRD12	1	50	0,686	210	4860
E98B01C070EAKRD12	1	70	0,474	264	6780
E98B01C095EAKRD12	1	95	0,342	318	9170
E98B01C120EAKRD12	1	120	0,271	370	11550
E98B01C150EAKRD12	1	150	0,220	428	14410
E98B01C185EAKRD12	1	185	0,176	488	17750
E98B01C240EAKRD12	1	240	0,134	581	22980
E98B01C300EAKRD12	1	300	0,107	672	28680
E98B01C400EAKRD12	1	400	0,0832	796	38200
E98B01C500EAKRD12	1	500	0,0647	928	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.

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