PowerAmp-AMS 8.7/15 (17.5)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 8.7/15 (17.5) kV IEC60502-2 CE"
Rated voltage (Uo)	: 8.7/15 kV
Highest system voltage (Um)	: 17.5 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

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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
E98B01C025EAKRD8	1	25	0.4	7.1	4.5	19.51	25.4	837
E98B01C035EAKRD8	1	35	0.4	9.0	4.5	21.39	27.2	944
E98B01C050EAKRD8	1	50	0.4	10.8	4.5	23.12	29	1058
E98B01C070EAKRD8	1	70	0.5	12.8	4.5	25.20	31.2	1220
E98B01C095EAKRD8	1	95	0.5	14.2	4.5	26.52	32.8	1356
E98B01C120EAKRD8	1	120	0.5	16.0	4.5	28.32	35	1558
E98B01C150EAKRD8	1	150	0.5	18.4	4.5	30.75	37.6	1842
E98B01C185EAKRD8	1	185	0.5	19.0	4.5	31.32	38.4	2019
E98B01C240EAKRD8	1	240	0.5	22.7	4.5	35.07	42.3	2331
E98B01C300EAKRD8	1	300	0.5	25.5	4.5	37.88	45.3	2665
E98B01C400EAKRD8	1	400	0.5	29.5	4.5	41.82	49.5	3155
E98B01C500EAKRD8	1	500	0.5	32.6	4.5	44.92	52.8	3599

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
E98B01C025EAKRD8	1	25	1.280	138	2460
E98B01C035EAKRD8	1	35	0.929	171	3430
E98B01C050EAKRD8	1	50	0.686	207	4860
E98B01C070EAKRD8	1	70	0.474	261	6780
E98B01C095EAKRD8	1	95	0.342	315	9170
E98B01C120EAKRD8	1	120	0.271	366	11550
E98B01C150EAKRD8	1	150	0.220	422	14410
E98B01C185EAKRD8	1	185	0.176	481	17750
E98B01C240EAKRD8	1	240	0.134	573	22980
E98B01C300EAKRD8	1	300	0.107	662	28680
E98B01C400EAKRD8	1	400	0.0832	783	38200
E98B01C500EAKRD8	1	500	0.0647	913	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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