PowerAmp-AMS 12/20 (24)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 12/20 (24) kV IEC60502-2 CE"
Rated voltage (Uo)	: 12/20 kV
Highest system voltage (Um)	: 24 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
E98B01C025EAKRD10	1	25	0.4	7.1	5.5	21.51	27.4	961
E98B01C035EAKRD10	1	35	0.4	9.0	5.5	23.39	29.4	1090
E98B01C050EAKRD10	1	50	0.4	10.8	5.5	25.12	31.2	1214
E98B01C070EAKRD10	1	70	0.5	12.8	5.5	27.2	33.4	1389
E98B01C095EAKRD10	1	95	0.5	14.2	5.5	28.52	34.8	1516
E98B01C120EAKRD10	1	120	0.5	16.0	5.5	30.32	37.2	1756
E98B01C150EAKRD10	1	150	0.5	18.4	5.5	32.75	39.8	2043
E98B01C185EAKRD10	1	185	0.5	19.0	5.5	33.32	40.4	2208
E98B01C240EAKRD10	1	240	0.5	22.7	5.5	37.07	44.3	2535
E98B01C300EAKRD10	1	300	0.5	25.5	5.5	39.88	47.3	2884
E98B01C400EAKRD10	1	400	0.5	29.5	5.5	43.82	51.7	3421
E98B01C500EAKRD10	1	500	0.5	32.6	5.5	46.92	55	3883

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
E98B01C025EAKRD10	1	25	1.280	137	2460
E98B01C035EAKRD10	1	35	0.929	170	3430
E98B01C050EAKRD10	1	50	0.686	205	4860
E98B01C070EAKRD10	1	70	0.474	258	6780
E98B01C095EAKRD10	1	95	0.342	311	9170
E98B01C120EAKRD10	1	120	0.271	362	11550
E98B01C150EAKRD10	1	150	0.220	417	14410
E98B01C185EAKRD10	1	185	0.176	476	17750
E98B01C240EAKRD10	1	240	0.134	566	22980
E98B01C300EAKRD10	1	300	0.107	654	28680
E98B01C400EAKRD10	1	400	0.0832	772	38200
E98B01C500EAKRD10	1	500	0.0647	900	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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