AL-XLPE-CTS-PVC 12/20 (24)kV

Unarmoured medium voltage cable with compacted aluminium conductor and XLPE insulation



Application

Single Core Aluminium Medium Voltage cable especially suitable for distribution of energy.

Construction

Conductor	: Compacted stranded circular aluminium, IEC60228 class 2				
Extruded conductor screen	: Semi conductive material				
Insulation	: Cross-linked polyethylene				
Extruded insulation screen	: Semi conductive material				
Tape screen	: Copper tape				
Cable core tape	: Non-woven tape				
Outer sheath	: Polyvinylchloride, ST2				
Marking text	: E.g. "AL/XLPE/CTS/PVC 1x95 mm2 12/20kV IEC60502-2 year xxxm				
Rated voltage	: 12/20 kV				
Highest system voltage	: 24 kV				

Outer Sheath Colours

Available colours

*other colours available on request

Installation recommendations

Min. Bending Radius during Installation	: 20xD
Min. Bending Radius Fix Installed	: 15xD
Max. Conductor Operating Temperature	: 90°C

: Black*

Standards applied

IEC60332-1:2004-07	Flame Retardant
IEC60502-2	Cable design

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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 mm	Approx. Overall Diameter in mm	Approx. Total Weight in kg/km
D2801C095BAKBK10	1	95	11.6	5.5	30.0	1065
D2801C120BAKBK10	1	120	13.0	5.5	31.6	1200
D2801C150BAKBK10	1	150	14.6	5.5	33.2	1342
D2801C185BAKBK10	1	185	16.2	5.5	35.0	1514
D2801C240BAKBK10	1	240	18.4	5.5	37.4	1765
D2801C300BAKBK10	1	300	20.6	5.5	39.6	2014
D2801C400BAKBK10	1	400	23.8	5.5	42.8	2430
D2801C500BAKBK10	1	500	26.6	5.5	46.6	2897

Note: Subject to change without prior notice.

Electrical Characteristics

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	M.C.C.R. trefoil in air in Amps	Conductor max. short circuit current 1 sec. in Amps	Voltage Drop single phase system parallel/trefoil in V/A/km
1	95	0.98	334	281	9.0	0.42
1	120	0.253	386	325	11.3	0.33
1	150	0.206	440	370	14.2	0.27
1	185	0.164	506	425	17.5	0.22
1	240	0.125	598	502	22.7	0.17
1	300	0.1	690	577	28.3	0.13
1	400	0.0778	812	677	37.8	0.1
1	500	0.0605	943	787	47.2	0.08

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.

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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