m-VOLT®

Technical
Data Sheet

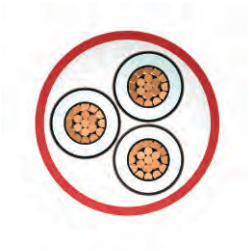
Medium Voltage

8.7/15 kV XLPE

Insulated | 3 Core | Copper Conductor

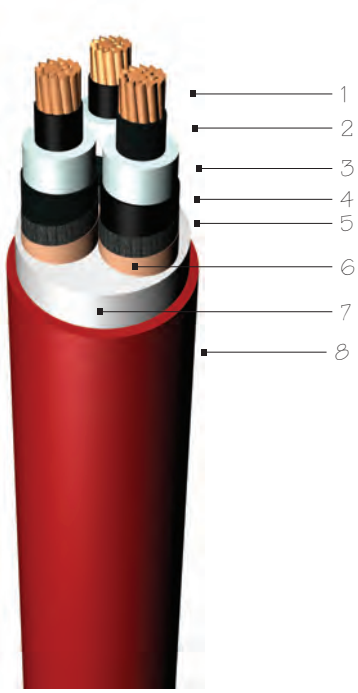
// Application

These are cables with low dielectric losses used in energy networks with sudden load changes. Laid in residential or industrial areas, underground or in ducts where there is no risk of mechanical damage.



// Construction

1. Stranded copper conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive tape.
6. Copper wire screen.
7. Filler.
8. PVC outer jacket.



// Cable Summary

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250 °C
Rated voltage	: 8.7/15 kV
Min. bending radius	: 15 x D

D = Cable outer diameter

// Standards

IEC 60502| BS 6622 | VDE 0276

// Code

YAXC8V-R | N2XSEY | CU/XLPE/CTS/PVC
R: Stranded Conductor Rigid

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Electrical Properties

DC Conductor Resistance @ 20 °C	Operation Inductance (approx.)	Operation Capacitance (approx.)	Current Carrying Capacity	
ohm/km	mH/km	µF/km	in Ground @ 20 °C	in Air @ 30 °C
0.7270	0.417	0.146	148	143
0.5240	0.397	0.160	178	173
0.3870	0.377	0.175	210	206
0.2680	0.356	0.196	256	257
0.1930	0.339	0.218	307	313
0.1530	0.325	0.240	349	360
0.1240	0.315	0.258	392	410
0.0991	0.305	0.280	443	469
0.0754	0.292	0.315	513	553
0.0601	0.284	0.343	576	635
0.0470	0.273	0.385	650	731

Dimensions & Weights

Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
mm^2	mm	kg/km	m
3x25/16	49.5	3150	1000
3x35/16	51.5	3600	1000
3x50/16	54.5	4300	1000
3x70/16	58.5	4200	500
3x95/16	62.5	6300	500
3x120/16	66.5	7350	500
3x150/25	69.5	8550	500
3x185/25	74.0	10000	500
3x240/25	80.5	12200	250
3x300/25	85.5	14450	250
3x400/35	93.0	18150	250

Laying / Installation method:

Linear | ○○○

Triangular | 

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