m-VOLT®

Technical
Data Sheet

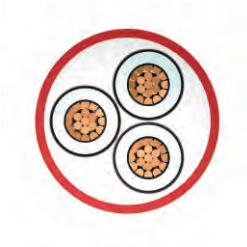
Medium Voltage

5.8/10 kV or 6.35/11 kV XLPE

Insulated | 3 Core | Copper Conductor

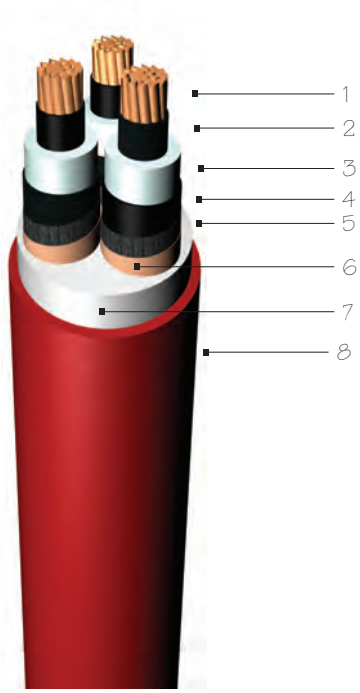
// Application

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	: 5.8/10 kV or 6.35/11 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	0.392	0.173	148	143
0.5240	0.374	0.189	178	173
0.3870	0.355	0.209	210	206
0.2680	0.336	0.236	256	257
0.1930	0.320	0.263	307	313
0.1530	0.308	0.291	349	360
0.1240	0.299	0.314	392	410
0.0991	0.290	0.341	443	469
0.0754	0.278	0.387	513	553
0.0601	0.270	0.422	576	635
0.0470	0.261	0.475	650	731

Dimensions & Weights

Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
mm^2	mm	kg/km	m
3x25/16	44.0	2650	1000
3x35/16	46.5	3100	1000
3x50/16	49.5	3750	1000
3x70/16	53.0	4600	1000
3x95/16	57.5	5700	500
3x120/16	61.5	6700	500
3x150/25	64.5	7850	500
3x185/25	68.5	9200	500
3x240/25	75.0	11450	250
3x300/25	80.5	13650	250
3x400/35	88.0	17250	250

4S products

Laying / Installation method:

Linear | ○○○

Triangular |

1st ISSUE