m-VOLT®

Technical
Data Sheet

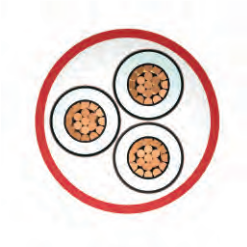
Medium Voltage

20.8/36 kV XLPE

Insulated | 3 Core | Copper Conductor

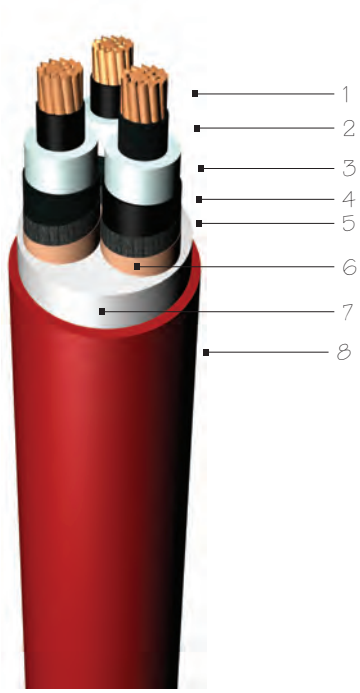
// Application

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	: 20.8/36 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
-	-	-	-	-
0.5240	0.471	0.107	-	-
0.3870	0.448	0.116	214	217
0.2680	0.423	0.127	261	269
0.1930	0.401	0.140	313	326
0.1530	0.384	0.152	356	377
0.1240	0.372	0.161	400	426
0.0991	0.359	0.173	441	488
0.0754	0.341	0.193	510	576
0.0601	0.330	0.208	-	-
0.0470	0.316	0.231	-	-

Dimensions & Weights

Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)	Delivery Length
mm^2	mm	kg/km	m
-	-	-	-
3x35/16	68.0	6400	500
3x50/16	76.5	7150	500
3x70/16	79.5	8200	500
3x95/16	83.5	9400	500
3x120/16	87.5	10700	250
3x150/25	91.0	12000	250
3x185/25	95.0	13600	250
3x240/25	101.5	16100	250
3x300/25	106.5	18550	250
3x400/35	114.0	22550	200

4S products

Laying / Installation method:

Linear | ○○○

Triangular |

1st ISSUE