m-VOLT®

Technical
Data Sheet

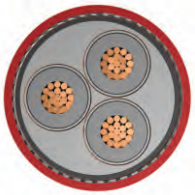
Medium Voltage

5.8/10 kV or 6.35/11 kV XLPE

Insulated | Round Steel Tape Wire Armor | 3 Core | Copper Conductor

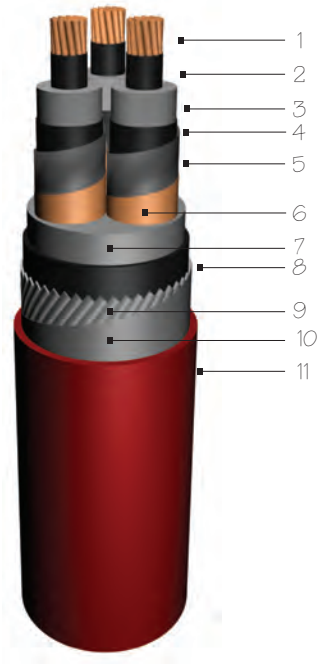
// Application

These are cables with low dielectric losses used in energy networks with sudden load changes where mechanical stresses are expected. Laid in residential or industrial areas, underground or in ducts.



// Construction

1. Stranded copper conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive tape.
6. Copper tape screen.
7. Filler.
8. PVC inner jacket.
9. Galvanized round steel wire armoring.
10. Galvanized steel tape.
11. 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

YXC8VZ3V-R | N2XSEYFGY
R: Stranded Conductor Rigid

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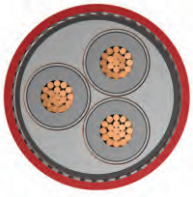
Electrical Properties

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	53.0	5250	500
3x35/16	55.5	5850	500
3x50/16	58.5	6650	500
3x70/16	62.5	7750	500
3x95/16	67.0	9100	500
3x120/16	71.0	10400	500
3x150/25	74.0	11700	500
3x185/25	79.0	14200	250
3x240/25	86.0	16950	250
3x300/25	92.0	19500	250
3x400/35	100.0	23850	250



Laying / Installation method:

Linear | ○○○

Triangular |

1st ISSUE