h-VOLT®

Technical Data Sheet

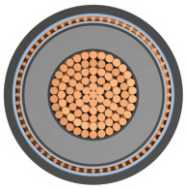
High Voltage

40/69 kV XLPE

Insulated | Radial & Longitudinally Sealed | Single Core | Copper Conductor

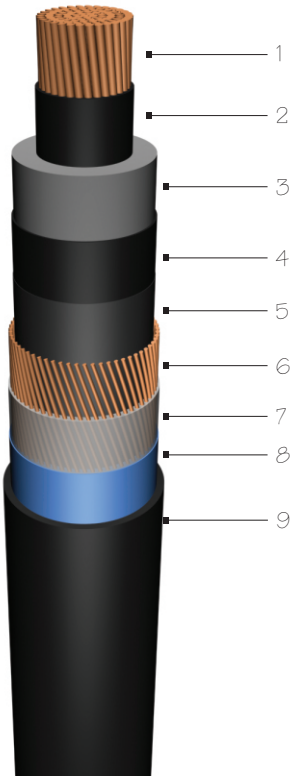
// Application

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. If the cable gets water inside due to mechanical damage, swellable tapes prevent the movement of the water inside the cable.



// Construction

1. Stranded copper conductor.
2. Inner semi-conductive layer.
3. XLPE insulation.
4. Outer semi-conductive layer.
5. Semi-conductive swellable tape.
6. Copper wire screen.
7. Swellable tape.
8. Aluminum tape.
9. PE outer jacket



// Cable Summary

Max. operating temperature	: 90°C
Max. short circuit temperature	: 250 °C
Rated voltage	: 40/69 kV
Min. bending radius	: 20 x D

D = Cable outer diameter

// Standards

IEC 60840| VDE 0276-632

// Code

2XS(FL)2Y, CU/XLPE/LWJ/CWS/LWJ/PE

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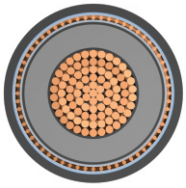
Electrical Properties

DC Conductor Resistance @ 20 °C	Operation Capacitance (approx.)	Current Carrying Capacity			
		in Ground @ 20 °C ○○○	in Duct ⁂ @ 20 °C	in Air ○○○ @ 30 °C	in Air ⁂ @ 30 °C
m	ohm/km				
0.0754	0.18	530	483	692	606
0.0601	0.19	599	544	795	693
0.0470	0.21	683	616	925	802
0.0366	0.23	780	729	1075	929
0.0283	0.26	886	828	1247	1066
0.0221	0.28	997	929	1432	1210
0.0176	0.31	1173	1087	1728	1473
0.0151	0.33	1270	1173	1894	1611
0.0113	0.37	1465	1375	2245	1883
0.0090	0.41	1627	1530	2556	2111

Dimensions & Weights

Nominal Cross Section	Overall Dia. (approx.)	Net Weight (approx.)
mm^2	mm	kg/km
1 x 240	61.0	4700
1 x 300	63.0	5400
1 x 400	66.0	6300
1 x 500	70.0	7600
1 x 630	75.0	9000
1 x 800	79.0	10700
1 x 1000	84.0	12900
1 x 1200	90.0	15000
1 x 1600	95.0	18800
1 x 2000	102.0	22800



Laying / Installation method:

Linear | ○○○

Triangular | ⁂

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