UNIMA CABLE

WE POWER ENERGY.
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DATA SHEET

NA2XS2Y

AL/XLPE/CWS/PE

CE RoHS CPR

REF: NA2XS2Y

20.3/35 kV (20.8/36 kV) | ONE CORE | HD 620 S2 | TSEK

Single core power cable with aluminium conductor, XLPE insulation, copper wire screen and PE outer sheath. Designed for energy networks with low dielectric losses and sudden load changes. Suitable for installation underground or in ducts in residential, commercial and industrial areas.

CONSTRUCTION

Conductor	Stranded aluminium conductor
Inner semi-conductive layer	Semi-conductive compound
Insulation	XLPE (cross-linked polyethylene)
Outer semi-conductive layer	Semi-conductive compound
Semi-conductive tape	Semi-conductive tape
Screen	Copper wire screen
Separator	Polyester tape
Outer sheath	PE (polyethylene), black

TECHNICAL DATA

Rated voltage (Uo/U)	20.3/35 kV (20.8/36 kV)
Max. operating temperature	90 °C
Max. short circuit temperature	250 °C (max. 5 sec.)
Min. bending radius	15 x D (D = cable outer diameter)

STANDARDS

HD 620 S2
TSEK
IEC 60840 (equivalent)

APPLICATIONS

For energy networks with sudden load changes. Suitable for underground installation or in ducts in residential, commercial and industrial areas.

Residential buildings | Industrial buildings | Energy distribution | Underground installation

DIMENSIONS AND ELECTRICAL PROPERTIES

Nominal cross-section mm²	Overall diameter (approx.)	Net weight (approx.)	Delivery length	DC conductor resistance at 20 °C max.	DC conductor resistance at 90 °C max.	Inductance	Capacitance	Current carrying capacity (A)			
								In ground at 20 °C		In air at 30 °C	
	mm	kg/km	m	Ω/km	Ω/km	mH/km	µF/km	Flat	Trefoil	Flat	Trefoil
1 x 35/16	37.5	1000	1000	0.868	1.1110	0.690	0.115	-	-	-	-
1 x 50/16	38.5	1100	1000	0.641	0.8205	0.664	0.125	196	175	217	187
1 x 70/16	40.5	1250	1000	0.443	0.5670	0.633	0.140	238	214	270	232
1 x 95/16	42.0	1400	1000	0.320	0.4096	0.609	0.153	284	256	328	281
1 x 120/16	44.0	1500	1000	0.253	0.3238	0.590	0.165	322	290	378	323
1 x 150/25	45.5	1750	1000	0.206	0.2637	0.572	0.178	355	324	425	365
1 x 185/25	47.5	1950	1000	0.164	0.2099	0.556	0.191	400	366	485	418
1 x 240/25	50.0	2200	1000	0.125	0.1600	0.535	0.209	461	426	572	494
1 x 300/25	52.5	2450	1000	0.100	0.1280	0.519	0.226	516	479	649	564
1 x 400/35	55.5	2950	1000	0.0778	0.1009	0.497	0.252	572	545	737	654
1 x 500/35	59.0	3400	1000	0.0605	0.0774	0.481	0.274	638	614	835	747
1 x 630/35	62.5	3900	1000	0.0469	0.0600	0.464	0.300	728	690	950	851

Notes: Current carrying capacities are valid under the following conditions:
- In ground: 20 °C, 70 cm depth of lay, soil thermal resistivity 1 K·m/W, load factor 0.7
- In air: 30 °C, load factor 1.0
- Flat formation: clearance between cables: in air = 1 x cable outer diameter, in ground = 7 cm
- Trefoil formation
- Number of systems: 1
- Dimensions and weights are approximate.

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