

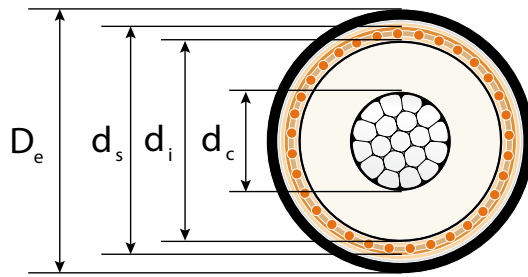
# HV XLPE CABLE WITH COPPER WIRES SCREEN AND ALUMINIUM LAMINATED FOIL

220/380 ÷ 400 (420) kV

XRUHAKXS according to ZN-TF-530

A2XS(FL)2Y according to IEC 62067

## ALUMINIUM CONDUCTOR



Cross section of conductor	Diameter of conductor	Insulation		Metallic screen		D <sub>e</sub> Outer diameter of cable	Cable weight	Maximum pulling force	Minimal bending radius
		Nominal thickness	Diameter over insulation	Cross section	Diameter over screen				
mm <sup>2</sup>	mm	mm	mm	mm <sup>2</sup>	mm	mm	kg/km	kN	m
630RM	29.3 <sup>+0.50</sup>	32.0	97.5	150	104.7	116	12040	22.1	2.9
800RM	33.0 <sup>+0.50</sup>	31.0	99.2	150	106.4	118	12640	28.0	3.0
1000RM	38.0 <sup>+0.50</sup>	30.0	102.2	150	109.4	121	13490	35.0	3.0
1200RM	42.5 <sup>+0.60</sup>	28.0	102.7	150	109.9	122	13910	42.0	3.0
1200RMS	43.0 <sup>+0.80</sup>	28.0	103.2	150	110.4	122	13950	42.0	3.1
1400RMS	45.1 <sup>+0.80</sup>	27.0	103.3	150	110.5	122	14370	49.0	3.1
1600RMS	48.5 <sup>+1.2</sup>	27.0	106.7	150	113.9	126	15340	56.0	3.1
1800RMS	52.7 <sup>+1.0</sup>	27.0	110.9	150	118.1	130	16540	63.0	3.2
2000RMS	54.5 <sup>+1.0</sup>	27.0	112.7	150	119.9	132	17210	70.0	3.3
2500RMS	59.0 <sup>+1.0</sup>	27.0	118.2	150	125.4	138	19010	87.5	3.5
3000RMS	67.0 <sup>+1.0</sup>	27.0	126.2	150	133.4	147	21920	100.0	3.7

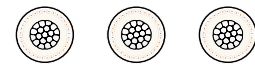
# HV XLPE CABLE WITH COPPER WIRES SCREEN AND ALUMINIUM LAMINATED FOIL

220/380 ÷ 400 (420) kV

## Electrical data

$D_e$  – Cable diameter

Cables in flat formation, the distance between the cable axes =  $2 \times D_e$



Cables in trefoil formation, the distance between the cable axes =  $D_e$



Cross section of conductor	Resistance of conductor 90°C	Electrical field stress at the		Capacitance	Zero reactance	Inductance	
		conductor	insulation screen				
mm <sup>2</sup>	Ω/km	kV/mm		μF/km	Ω/km	Ω/km	
630RM	0.0622	12.30	4.25	0.125	0.097	0.205	0.150
800RM	0.0498	12.10	4.55	0.140	0.091	0.200	0.145
1000RM	0.0408	11.80	4.90	0.155	0.084	0.195	0.135
1200RM	0.0359	12.00	5.45	0.170	0.077	0.185	0.130
1200RMS	0.0319	11.95	5.45	0.170	0.076	0.185	0.130
1400RMS	0.0275	12.10	5.80	0.180	0.074	0.180	0.125
1600RMS	0.0242	11.85	5.85	0.190	0.071	0.180	0.120
1800RMS	0.0216	11.60	5.95	0.200	0.068	0.175	0.120
2000RMS	0.0195	11.50	6.00	0.205	0.067	0.175	0.115
2500RMS	0.0168	11.25	6.10	0.220	0.065	0.170	0.115
3000RMS	0.0130	10.95	6.25	0.240	0.061	0.170	0.110