

HV XLPE CABLE WITH COPPER WIRES SCREEN AND ALUMINIUM LAMINATED FOIL

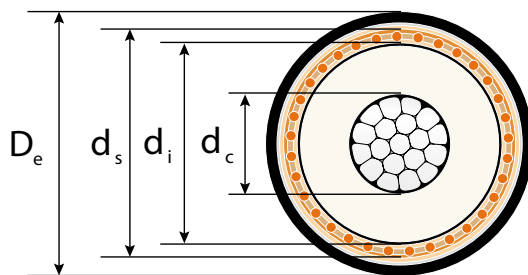
76/132 ÷ 138 (145) kV

XRUHAKXS according to ZN-TF-530

A2XS(FL)2Y according to IEC 60840

NA2XS(FL)2Y according to DIN VDE 0276-632

ALUMINIUM CONDUCTOR



Cross section of conductor	Diameter of conductor	Insulation		Metallic screen		D_e Outer diameter of cable	Cable weight	Maximum pulling force	Minimal bending radius
		Nominal thickness	Diameter over insulation	Cross section	Diameter over screen				
mm ²	mm	mm	mm	mm ²	mm	mm	kg/km	kN	m
185RM	15.8 ^{+0.20}	18.0	54.8	95	60.6	69	4600	6.5	1.7
240RM	17.9 ^{+0.10}	17.0	54.9	95	60.7	69	4710	8.4	1.7
300RM	20.0 ^{+0.30}	16.5	55.4	95	61.2	70	4850	10.5	1.7
400RM	22.9 ^{+0.30}	16.0	56.9	95	62.7	71	5140	14.0	1.8
500RM	25.7 ^{+0.40}	16.0	59.7	95	65.5	74	5640	17.5	1.9
630RM	29.3 ^{+0.50}	16.0	63.9	95	69.7	79	6370	22.1	2.0
800RM	33.0 ^{+0.50}	16.0	67.6	95	73.4	83	7090	28.0	2.1
1000RM	38.0 ^{+0.50}	16.0	72.6	95	78.4	88	8050	35.0	2.2
1200RM	42.5 ^{+0.60}	16.0	77.1	95	82.9	93	9010	42.0	2.3
1200RMS	43.0 ^{+0.80}	16.0	79.2	95	85.0	95	9270	42.0	2.4
1400RMS	45.1 ^{+0.80}	16.0	81.3	95	87.1	97	9990	49.0	2.4
1600RMS	48.5 ^{+1.2}	16.0	84.7	95	90.5	101	10830	56.0	2.5
1800RMS	52.7 ^{+1.0}	16.0	88.9	95	94.7	105	11850	63.0	2.6
2000RMS	54.5 ^{+1.0}	16.0	90.7	95	96.5	107	12460	70.0	2.7
3000RMS	67.0 ^{+1.0}	16.0	104.2	95	110.4	122	16730	100.0	3.1

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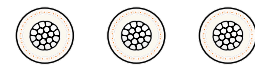
76/132 ÷ 138 (145) kV

2500RMS	59.0 ^{+1.0}	16.0	96.2	95	102.4	114	14120	87.5	2.8
3000RMS	67.0 ^{+1.0}	16.0	104.2	95	110.4	122	16730	100.0	3.1

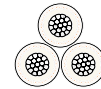
Electrical data

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 ²	Ω/km	kV/mm		μF/km	Ω/km	Ω/km	
185RM	0.2108	7.60	2.60	0.125	0.102	0.215	0.155
240RM	0.1610	7.55	2.90	0.140	0.094	0.205	0.145
300RM	0.1291	7.50	3.05	0.150	0.088	0.200	0.140
400RM	0.1009	7.40	3.25	0.165	0.080	0.190	0.135
500RM	0.0792	7.15	3.35	0.175	0.076	0.185	0.130
630RM	0.0622	6.90	3.45	0.195	0.072	0.180	0.125
800RM	0.0498	6.70	3.55	0.210	0.067	0.175	0.120
1000RM	0.0408	6.45	3.65	0.230	0.063	0.170	0.115
1200RM	0.0359	6.30	3.70	0.250	0.059	0.170	0.110
1200RMS	0.0319	6.25	3.75	0.260	0.060	0.170	0.110
1400RMS	0.0275	6.20	3.75	0.270	0.059	0.165	0.110
1600RMS	0.0242	6.10	3.80	0.285	0.056	0.165	0.110
1800RMS	0.0216	6.00	3.85	0.300	0.054	0.160	0.105
2000RMS	0.0195	6.00	3.90	0.310	0.053	0.160	0.105
2500RMS	0.0168	5.90	3.95	0.330	0.052	0.160	0.100
3000RMS	0.0130	5.75	3.95	0.365	0.049	0.155	0.100