

HV XLPE CABLE WITH COPPER WIRES SCREEN AND ALUMINIUM LAMINATED FOIL

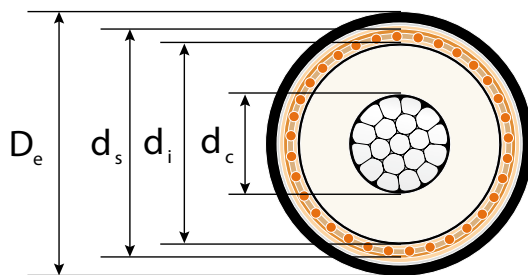
87/150 ÷ 161 (170) kV

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
240RM	17.9 ^{+0.10}	21.0	62.9	95	68.7	78	5600	8.4	1.9
300RM	20.0 ^{+0.30}	20.5	63.8	95	69.6	78	5800	10.5	2.0
400RM	22.9 ^{+0.30}	19.5	64.3	95	70.1	79	5990	14.0	2.0
500RM	25.7 ^{+0.40}	19.0	66.1	95	71.9	81	6410	17.5	2.0
630RM	29.3 ^{+0.50}	19.0	69.9	95	75.7	85	7110	22.1	2.1
800RM	33.0 ^{+0.50}	19.0	73.6	95	79.4	89	7870	28.0	2.2
1000RM	38.0 ^{+0.50}	19.0	78.6	95	84.4	94	8880	35.0	2.4
1200RM	42.5 ^{+0.60}	19.0	83.1	95	88.9	99	9880	42.0	2.5
1200RMS	43.0 ^{+0.80}	19.0	85.2	95	91.0	101	10160	42.0	2.5
1400RMS	45.1 ^{+0.80}	19.0	87.3	95	93.1	104	10910	49.0	2.6
1600RMS	48.5 ^{+1.2}	19.0	90.7	95	96.5	107	11780	56.0	2.7
1800RMS	52.7 ^{+1.0}	19.0	94.9	95	100.7	112	12840	63.0	2.8
2000RMS	54.5 ^{+1.0}	18.0	94.7	95	100.5	112	13150	70.0	2.8
2500RMS	59.0 ^{+1.0}	18.0	100.2	95	106.4	118	14850	87.5	3.0
3000RMS	67.0 ^{+1.0}	18.0	108.2	95	114.2	127	17510	100.0	3.2

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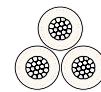
Electrical data

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 screen	insulation				
mm ²	Ω/km	kV/mm		μF/km	Ω/km	Ω/km	
240RM	0.1610	7.60	2.55	0.125	0.102	0.215	0.155
300RM	0.1291	7.45	2.65	0.130	0.095	0.205	0.150
400RM	0.1009	7.40	2.95	0.145	0.088	0.200	0.140
500RM	0.0792	7.25	3.10	0.160	0.082	0.195	0.135
630RM	0.0622	7.00	3.20	0.170	0.077	0.185	0.130
800RM	0.0498	6.75	3.30	0.185	0.072	0.180	0.125
1000RM	0.0408	6.50	3.40	0.205	0.067	0.175	0.120
1200RM	0.0359	6.35	3.45	0.220	0.064	0.170	0.115
1200RMS	0.0319	6.25	3.50	0.230	0.064	0.175	0.115
1400RMS	0.0275	6.20	3.50	0.235	0.062	0.170	0.115
1600RMS	0.0242	6.10	3.55	0.250	0.060	0.170	0.110
1800RMS	0.0216	6.00	3.60	0.265	0.058	0.165	0.110
2000RMS	0.0195	6.20	3.85	0.280	0.056	0.165	0.105
2500RMS	0.0168	6.10	3.95	0.300	0.054	0.160	0.105
3000RMS	0.0130	6.00	3.95	0.330	0.051	0.160	0.100