

HV XLPE CABLE WITH COPPER WIRES SCREEN AND ALUMINIUM LAMINATED FOIL

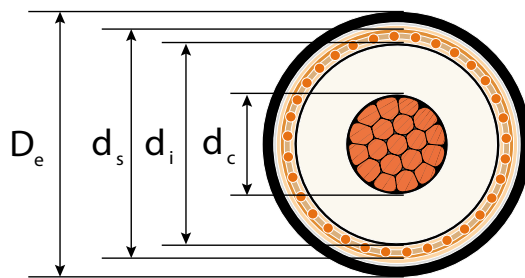
76/132 ÷ 138 (145) kV

XRUHKXS according to ZN-TF-530

2XS(FL)2Y according to IEC 60840

N2XS(FL)2Y according to DIN VDE 0276-632

COPPER 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^2	mm	mm	kg/km	kN	m
185RM	15.8 ^{+0.40}	18.0	54.8	95	60.6	69	5730	9.3	1.7
240RM	18.5 ^{+0.30}	17.0	55.5	95	61.3	70	6220	12.0	1.7
300RM	20.5 ^{+0.20}	16.5	55.9	95	61.7	70	6770	15.0	1.8
400RM	23.6 ^{+0.30}	16.0	57.6	95	63.4	72	7620	20.0	1.8
500RM	26.4 ^{+0.40}	16.0	60.4	95	66.2	75	8800	25.0	1.9
630RM	30.3 ^{+0.40}	16.0	64.9	95	70.7	80	10380	31.5	2.0
800RM	34.7 ^{+0.40}	16.0	69.3	95	75.1	84	12250	40.0	2.1
1000RM	38.3 ^{+0.40}	16.0	72.9	95	78.7	88	14390	50.0	2.2
1200RMS	41.6 ^{+0.80}	16.0	77.8	95	83.6	94	16670	60.0	2.3
1400RMS	45.8 ^{+0.80}	16.0	82.0	95	87.8	98	18620	70.0	2.5
1600RMS	49.6 ^{+1.2}	16.0	85.8	95	91.6	102	20910	80.0	2.6
1800RMS	53.2 ^{+1.0}	16.0	89.4	95	95.2	106	23350	90.0	2.7
2000RMS	54.6 ^{+1.0}	16.0	90.8	95	96.6	107	24900	100.0	2.7
3000RMS	68.4 ^{+1.0}	16.0	105.6	95	111.8	124	36520	100.0	3.1

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2500RMS	60.0 ^{+1.0}	16.0	97.2	95	103.4	115	30050	100.0	2.9
3000RMS	68.4 ^{+1.0}	16.0	105.6	95	111.8	124	36520	100.0	3.1

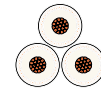
Electrical data

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	0.1272	7.60	2.60	0.125	0.102	0.215	0.155
240RM	0.0973	7.50	2.90	0.145	0.093	0.205	0.145
300RM	0.0781	7.45	3.05	0.150	0.086	0.195	0.140
400RM	0.0619	7.35	3.30	0.165	0.079	0.190	0.130
500RM	0.0492	7.10	3.35	0.180	0.075	0.185	0.125
630RM	0.0395	6.80	3.45	0.200	0.070	0.180	0.120
800RM	0.0325	6.60	3.55	0.215	0.066	0.175	0.120
1000RM	0.0275	6.45	3.65	0.235	0.062	0.170	0.115
1200RMS	0.0222	6.30	3.70	0.255	0.061	0.170	0.115
1400RMS	0.0198	6.15	3.75	0.270	0.058	0.165	0.110
1600RMS	0.0182	6.10	3.80	0.290	0.056	0.165	0.105
1800RMS	0.0169	6.00	3.85	0.305	0.054	0.160	0.105
2000RMS	0.0158	5.95	3.90	0.310	0.053	0.160	0.105
2500RMS	0.0140	5.85	3.95	0.335	0.051	0.160	0.100
3000RMS	0.0126	5.75	3.95	0.370	0.048	0.155	0.100