



CABLE STRUCTURE

Conductor	Electrolytic, stranded, annealed copper wires, Class 2 (tinned conductor on request)
Conductor Screen	Extruded inner semiconductive layer
Insulation	Rubber based HEPR compound, type G7 (IEC 60502-2, HD 620 S2 P.1)
Conductor Screen	Extruded outer semiconductive layer (strippable)
Screen	Overall concentric lay of copper wires and copper tape
Inner Covering	PVC compound (only for multicores)
Sheath	Flame retardant PVC compound, Rz type (IEC 60502-2, HD 620 S2 P.1)
Color	Red

MAIN CHARACTERISTICS

Construction	CEI 20-13, IEC 60502-2
General Requirements	CEI 20-22 II
Guide to Use	CEI 11-17, HD 620 S2
Electrical Tests	CEI 20-16, IEC 60885-3, HD 605
Non - electrical Tests	IEC 60811 series
Conductor Resistance	CEI 20-29, IEC 60228
Flame Retardant	CEI 20-22 II ,CEI 20-35, IEC 60332-1

OPERATING CHARACTERISTICS

Rated Voltage	3,6/6 kV - 6/10 kV - 8,7/15 kV - 12/20 kV (U ₀ /U)
AC Test Voltage	11 kV / 17 kV / 24 kV / 29 kV
Operating Temperature	-15°C to +90°C
Conductor Short-Circuit Temp.	250°C (Max. 5 sec)
Min. Installation Temp.	0°C
Min. Bending Radius (during installation)	
<i>Single Core Cables</i>	15x Outer Diameter
<i>Multi Core Cables</i>	12x Outer Diameter
Current Carrying Capacities	In compliance with CEI 20-21, VDE 0298-4 Tab. 15, IEC 60287 and HD 620 S2

APPLICATIONS

These medium voltage cables are used in energy supply between power distribution systems to end users. They are used in industries like airports, wind-farms and others as power cable. They can be used free-hanging, in tubes and channels or laid underground. These cables can be used as connection power cables in transformer substations.



3,6/6 kV

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x25/16	21,00	745	315	0,727
1x35/16	22,30	853	335	0,524
1x50/16	26,30	1010	395	0,387
1x70/16	25,10	1220	377	0,268
1x95/16	26,10	1501	392	0,193
1x120/16	27,80	1756	417	0,153
1x150/25	30,50	2167	458	0,124
1x185/25	32,50	2572	488	0,0991
1x240/25	35,00	3131	525	0,074
1x300/25	37,80	3810	567	0,0601
1x400/35	41,50	4840	623	0,0470
1x500/35	45,40	5911	681	0,0366
3x25/16	43,90	2865	527	0,727
3x35/16	46,90	3341	563	0,524
3x50/16	50,00	3985	600	0,387
3x70/16	53,80	4885	646	0,268
3x95/16	58,10	5980	697	0,193
3x120/16	61,50	6970	738	0,153
3x150/25	66,50	8350	798	0,124
3x185/25	71,40	9920	857	0,0991
3x240/25	76,70	12056	920	0,074
3x300/25	82,80	14595	994	0,0601
3x400/35	90,90	18175	1091	0,0470

6/10 kV

1x25/16	21,80	775	327	0,727
1x35/16	23,10	886	347	0,524
1x50/16	24,40	1045	366	0,387
1x70/16	25,90	1255	389	0,268
1x95/16	27,90	1541	419	0,193
1x120/16	29,40	1800	441	0,153
1x150/25	31,30	2212	470	0,124
1x185/25	33,50	2625	503	0,0991
1x240/25	36,00	3210	540	0,074
1x300/25	38,60	3865	579	0,0601
1x400/35	42,50	4932	638	0,047
1x500/35	45,80	5956	687	0,0366
3x25/16	45,90	3070	551	0,727
3x35/16	48,90	3560	587	0,524
3x50/16	51,90	4200	623	0,387
3x70/16	55,70	5115	668	0,268
3x95/16	59,80	6201	718	0,193
3x120/16	63,40	7235	761	0,153
3x150/25	68,20	8601	818	0,124
3x185/25	73,30	10225	880	0,0991
3x240/25	78,70	12406	944	0,074
3x300/25	84,50	14910	1014	0,0601
3x400/35	93,00	18621	1116	0,0470

8,7/15 kV

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x25/16	24,2	880	363	0,727
1x35/16	25,5	995	383	0,524
1x50/16	27	1175	405	0,387
1x70/16	28,3	1377	425	0,268
1x95/16	30,3	1671	455	0,193
1x120/16	31,8	1935	477	0,153
1x150/25	33,7	2360	506	0,124
1x185/25	35,9	2793	539	0,0991
1x240/25	38,2	3350	573	0,074
1x300/25	41	4045	615	0,0601
1x400/35	45,6	5143	684	0,0470
1x500/35	48,9	6182	734	0,0366
3x25/16	50,8	3596	610	0,727
3x35/16	54,4	4205	653	0,524
3x50/16	57,4	4885	689	0,387
3x70/16	60,9	5795	731	0,268
3x95/16	65	6930	780	0,193
3x120/16	68,4	7970	821	0,153
3x150/25	73,7	9485	884	0,124
3x185/25	78,3	11066	940	0,0991
3x240/25	83,6	13285	1003	0,074
3x300/25	89,6	15891	1075	0,0601

12/20 kV

1x25/16	26,20	971	393	0,727
1x35/16	27,70	1110	416	0,524
1x50/16	29,00	1275	435	0,387
1x70/16	30,50	1500	458	0,268
1x95/16	32,30	1785	485	0,193
1x120/16	34,00	2071	510	0,153
1x150/25	35,90	2502	539	0,124
1x185/25	37,90	2930	569	0,0991
1x240/25	40,40	3512	606	0,074
1x300/25	43,20	4220	648	0,0601
1x400/35	47,60	5311	714	0,047
1x500/35	50,90	6362	764	0,0366
3x35/16	58,90	7080	707	0,527
3x50/16	62,00	7950	744	0,387
3x70/16	65,40	9045	785	0,268
3x95/16	69,70	10451	836	0,193
3x120/16	73,50	11775	882	0,153
3x150/25	78,30	15420	940	0,124
3x185/25	83,00	17425	996	0,074
3x240/25	88,30	20115	1060	0,0601
3x300/25	94,80	23386	1138	0,047