



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	Rubber based HEPR or equivalent compound, type G7 (EN 50363-0, CEI 20-11)
Inner Covering	Halogen-Free thermoplastic compound (for only multi-core cables above 16 mm ²)
Sheath	Halogen-Free thermoplastic compound, M1 type (EN 50363-0, CEI 20-11)
Color	Green (Black on request)

MAIN CHARACTERISTICS

Construction	CEI 20-13, CEI UNEL 35382, CEI UNEL 35384
General Requirements	CEI 20-48
Guide to Use	CEI 20-67
Electrical Tests	EN 50395
Non - electrical Tests	EN 50396
Conductor Resistance	CEI 20-29, IEC 60228
Flame Retardant	CEI 20-22 III, IEC 60332-1-2, IEC 60332-3-24
Halogen Content	CEI 20-37, IEC 60754-1/2
Smoke Density	CEI 20-37, IEC 61034-1/2

OPERATING CHARACTERISTICS

Rated Voltage	600/1000 V (U ₀ /U)
AC Test Voltage	4 kV
Working Temperature	(Without mechanical shocks)
<i>In Flexing Use</i>	-0°C to +90°C
<i>In Fixed Use</i>	-15°C to +90°C
Conductor Short-Circuit Temp.	250°C (Max. 5 sec)
Min. Installation Temp.	0°C
Min. Bending Radius	UNEL 35382, UNEL 35384
Current Carrying Capacities	CEI 20-21, VDE 0298-4 Tab.13 , IEC 60364-5-52 Tab. B.52.12 & Tab. C.52.1

Notes : Not Covered by CPR.

APPLICATIONS

These rubber insulated cables are suitable for both indoor and outdoor use as power and control cable. They are mostly used in environments at risk of fire like offices, subways, hospitals, etc. also equipments and systems that have to be protected from corrosive gasses. They can be used in dry, damp and wet places also allowed for direct and indirect underground laying.



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)
1x1,5	5,80	48	23	13,30
1x2,5	6,20	60	25	7,98
1x4	6,70	76	27	4,95
1x6	7,20	96	29	3,30
1x10	8,30	141	33	1,91
1x16	9,30	195	37	1,21
1x25	11,40	295	46	0,78
1x35	12,30	385	49	0,554
1x50	14,00	522	56	0,386
1x70	16,30	743	65	0,272
1x95	17,90	942	72	0,206
1x120	20,00	1196	80	0,161
1x150	22,00	1480	88	0,129
1x185	24,30	1785	97	0,106
1x240	27,60	2381	110	0,0801
1x300	30,40	2926	122	0,0641
1x400	35,70	3850	143	0,0486
1x500	38,80	5055	155	0,0384
2x1,5	9,50	125	38	13,30
2x2,5	10,40	160	42	7,98
2x4	11,40	203	46	4,95
2x6	12,50	260	50	3,30
2x10	14,70	380	59	1,91
2x16	16,70	530	67	1,21
2x25	22,80	920	91	0,78
2x35	24,60	1157	98	0,554
2x50	28,20	1560	113	0,386
2x70	33,00	2201	132	0,272
3x1,5	10,00	142	40	13,30
3x2,5	11,00	185	44	7,98
3x4	12,00	245	48	4,95
3x6	13,20	315	53	3,30

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)
3x10	15,60	475	62	1,91
3x16	17,80	675	71	1,21
3x25	24,20	1142	97	0,780
3x35	26,10	1461	104	0,554
3x50	30,00	1983	120	0,386
3x70	35,30	2831	141	0,272
3x95	39,00	3575	156	0,206
3x120	43,90	4565	176	0,161
3x150	47,90	5570	192	0,129
3x185	53,70	6840	215	0,106
3x240	60,80	9035	243	0,0801
3x300	66,80	11046	267	0,0641
3x16+10	21,30	897	85	1,21
3x25+16	26,20	1350	105	0,780
3x35+16	28,50	1805	114	0,554
3x50+25	33,30	2366	133	0,386
3x70+35	38,60	3320	154	0,272
3x95+50	43,10	4260	172	0,206
3x120+70	48,10	5437	192	0,161
3x150+70	52,70	6561	211	0,129
3x185+95	59,00	8096	236	0,106
3x240+120	66,80	10650	267	0,0801
3x300+150	74,00	13145	296	0,0641
4x1,5	10,80	166	43	13,30
4x2,5	11,90	220	48	7,98
4x4	13,10	295	52	4,95
4x6	14,40	385	58	3,30
4x10	17,10	585	68	1,91
4x16	19,50	845	78	1,21
4x25	26,50	1415	106	0,780
4x35	28,80	1836	115	0,554
4x50	33,60	2540	134	0,386

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)
4x70	39,00	3575	156	0,272
5x1,5	11,60	197	46	13,30
5x2,5	12,90	265	52	7,98
5x4	14,20	355	57	4,95
5x6	15,70	470	63	3,30
5x10	18,70	716	75	1,91
5x16	21,40	1031	86	1,21
5x25	29,20	1735	117	0,780
5x35	32,30	2301	129	0,554
5x50	37,30	3145	149	0,386
5x70	43,80	4485	175	0,272
7x1,5	12,50	235	50	13,30
7x2,5	13,80	317	55	7,98
10x1,5	15,40	320	62	13,30
10x2,5	17,10	435	68	7,98
12x1,5	15,80	360	63	13,30
12x2,5	17,70	495	71	7,98
16x1,5	17,40	450	70	13,30
16x2,5	19,50	625	78	7,98
19x1,5	18,30	503	73	13,30
19x2,5	20,50	706	82	7,98
24x1,5	21,20	626	85	13,30
24x2,5	23,80	882	95	7,98