



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	PVC compound, PVC/A type (IEC 60502-1)
Inner Covering	Extruded PVC compound for only multicore cables
Sheath	PVC compound, ST2 type (IEC 60502-1)
Color	Black

MAIN CHARACTERISTICS

Construction	IEC 60502-1 +A1, VDE 0276
General Requirements	TS HD 603 S1, VDE 0276-603
Guide to Use	VDE 0250-1
Electrical Tests	EN 50395
Non - electrical Tests	EN 50396
Conductor Resistance	IEC 60228, VDE 0295, BS 6360
Flame Retardant	IEC 60332-1-2

OPERATING CHARACTERISTICS

Rated Voltage	600 / 1000 V (U ₀ /U)
AC Test Voltage	3,5 kV
Operating Temperature	
<i>In Flexing Use</i>	-5°C to +50°C
<i>In Fixed Use</i>	-30°C to +70°C
Conductor Short-Circuit Temp.	160°C (Max. 5 sec)
Min. Installation Temp.	-5°C
Min. Bending Radius	VDE 276-603, TS HD 604 S1 Part 3C
Current Carrying Capacities	VDE 0298-4 Tab.3 & Tab.4, IEC 60364-5-52 Tab B52.1 & B52.2 & B52.4 & B52.10

APPLICATIONS

These cables are used in power distribution, utilities, industrial plants, machinery and construction sites in cable ducts and pipes. They can be used both indoor and outdoor where mechanical stress is low and available to use underground.



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	5,90	50	47	13,30
1x2,5	6,40	65	51	7,98
1x4	7,30	90	58	4,95
1x6	7,80	110	62	3,30
1x10	8,90	160	71	1,91
1x16	9,90	216	79	1,21
1x25	12,00	320	96	0,78
1x35	12,90	415	103	0,554
1x50	14,80	563	118	0,386
1x70	16,90	786	135	0,272
1x95	19,10	1015	153	0,206
1x120	20,80	1262	166	0,161
1x150	22,80	1557	182	0,129
1x185	25,30	1890	202	0,106
1x240	28,80	2520	230	0,0801
1x300	31,80	3096	254	0,0641
1x400	36,90	4040	295	0,0486
1x500	40,00	5275	320	0,0384
1x630	43,40	6696	347	0,0287
2x1,5	11,80	195	94	13,30
2x2,5	12,70	236	102	7,98
2x4	14,60	325	117	4,95
2x6	15,60	386	125	3,30
2x10	17,80	535	142	1,91
2x16	19,80	706	158	1,21
2x25	24,00	1045	192	0,78
3x1,5	12,30	220	98	13,30
3x2,5	15,30	270	122	7,98
3x4	16,40	375	131	4,95
3x6	16,40	455	131	3,30
3x10	18,80	640	150	1,91
3x16	20,90	860	167	1,21
3x25	25,40	1270	203	0,78

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)
3x35	27,40	1610	219	0,554
3x50	32,20	2237	258	0,386
3x70	36,50	3047	292	0,272
3x95	41,20	3921	330	0,206
3x120	45,50	4901	364	0,161
3x150	49,80	6000	398	0,129
3x185	55,30	7311	442	0,106
3x240	63,00	9691	504	0,0801
3x16+10	22,70	1020	182	1,21
3x25+16	27,70	1526	222	0,78
3x35+16	30,00	1900	240	0,554
3x50+25	35,40	2660	283	0,386
3x70+35	40,10	3616	321	0,272
3x95+50	45,70	4726	366	0,206
3x120+70	50,30	2930	402	0,161
3x150+70	55,00	7150	440	0,129
3x185+95	61,00	8740	488	0,106
3x240+120	69,40	11526	555	0,0801
3x300+150	77,00	14235	616	0,0641
4x1,5	13,20	256	106	13,30
4x2,5	14,20	315	114	7,98
4x4	16,50	445	132	4,95
4x6	17,70	550	142	3,30
4x10	20,40	780	163	1,91
4x16	22,80	1060	182	1,21
4x25	28,10	1595	225	0,78
4x35	30,30	2030	242	0,554
4x50	35,70	2831	286	0,386
4x70	40,70	4890	326	0,272
4x95	46,10	5033	369	0,206
4x120	50,60	6250	405	0,161
4x150	55,80	7722	446	0,129
4x185	61,80	9370	494	0,106

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)
4x240	70,50	12460	564	0,0801
5x1,5	14,10	295	113	13,30
5x2,5	15,30	370	122	7,98
5x4	17,90	530	143	4,95
5x6	19,20	651	154	3,30
5x10	22,20	936	178	1,91
5x16	25,00	1291	200	1,21
5x25	31,50	2997	252	0,78
5x35	33,90	2535	271	0,554
7x1,5	14,90	345	119	13,30
7x2,5	16,30	440	130	7,98
7x4	19,10	635	153	4,95
7x6	20,60	795	165	3,30
7x10	23,90	1160	191	1,91
10x1,5	18,00	510	144	13,30
10x2,5	19,80	595	158	7,98
12x1,5	18,50	510	148	13,30
12x2,5	20,40	665	163	7,98
14x1,5	19,30	565	154	13,30
14x2,5	21,30	741	170	7,98
16x1,5	20,20	617	162	13,30
16x2,5	22,30	830	178	7,98
19x1,5	21,10	700	169	13,30
19x2,5	23,40	930	187	7,98
21x1,5	22,20	815	178	13,30
21x2,5	24,60	1085	197	7,98
24x1,5	24,20	861	194	13,30
24x2,5	26,90	1155	215	7,98
30x1,5	25,50	1007	204	13,30
30x2,5	28,60	1375	229	7,98
40x1,5	28,60	1340	229	13,30
40x2,5	32,50	1875	260	7,98