



(Single cores only)



## CABLE STRUCTURE

<b>Conductor</b>	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
<b>Separator</b>	A suitable tape may be applied over the conductor
<b>Insulation</b>	EI8 type cross-linked elastomeric compound (EN 50363-5)
<b>Inner Sheath</b>	EM8 or EM10 type elastomer compound. <i>If outer sheath thickness is greater than 2,4 mm</i>
<b>Outer Sheath</b>	EM8 type cross-linked elastomeric compound (EN 50363-6)
<b>Color</b>	Black (other colors available on request)

## MAIN CHARACTERISTICS

<b>Construction</b>	EN 50525-3-21, VDE 0285-3-21, IEC 60245-4
<b>General Requirements</b>	EN 50525-1, VDE 0285-525-1, IEC 60245-1
<b>Guide to Use</b>	EN 50565-1/2, VDE 0298-565-1
<b>Electrical Tests</b>	EN 50395, IEC 60245-2
<b>Non-electrical Tests</b>	EN 50396, IEC 60245-2
<b>Conductor Resistance</b>	IEC 60228, VDE 0295
<b>Halogen Content</b>	EN 50363-5/6, EN 60574-1
<b>Flame Retardant</b>	IEC 60332-1-2, VDE 0482-332-1-2, IEC 60332-3-24
<b>Oil Resistant</b>	EN 60811-404, VDE 0473-811-404

## OPERATING CHARACTERISTICS

<b>Rated Voltage</b>	450/750 V (U <sub>0</sub> /U)
<b>AC Test Voltage</b>	2,5 kV
<b>Operating Temperature</b> <i>(Without mechanical shocks)</i>	
<i>In Flexing Use</i>	-5°C to +70°C
<i>In Fixed Use</i>	-20°C to +90°C
<b>Conductor Short-Circuit Temp.</b>	250°C (Max. 5 sec)
<b>Min. Installation Temp.</b>	-5°C
<b>Min. Bending Radius</b>	EN 50565-1 Tab. 3
<b>Current Carrying Capacities</b>	VDE 0298-4 Tab.13, IEC 60364-5-52 Tab. B.52.12 & Tab. C.52.1

\* It's allowed up to 1.000 V AC or DC using for fixed and protected installations.

## APPLICATIONS

These halogen-free flexible cables are used as power and control cables temporary indoor and permanent outdoor applications. It consist low grade smoke and corrosive gases and suitable to use for heavy conditions and medium mechanical stress. Due to it's construction it can be used wet, oily, damp places and explosion hazard areas.



FLAME RETARDANT



HALOGEN-FREE



LOW SMOKE



OIL RESISTANT



UV RESISTANT

Cross Section (mm <sup>2</sup> )	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x1,5	6,20	56	25	13,30
1x2,5	6,80	71	27	7,98
1x4	7,70	97	31	4,95
1x6	8,40	123	34	3,30
1x10	10,30	191	41	1,91
1x16	11,50	260	46	1,21
1x25	14,20	388	71	0,78
1x35	15,50	502	78	0,554
1x50	17,80	680	89	0,386
1x70	20,10	927	121	0,272
1x95	22,50	1.185	135	0,206
1x120	24,60	1.470	148	0,161
1x150	26,80	1.797	161	0,129
1x185	29,50	2.167	177	0,106
1x240	33,00	2833	198	0,0801
1x300	36,00	3442	216	0,0641
1x400	41,30	4459	248	0,0486
1x500	44,60	5748	268	0,0384
1x630	47,80	7178	287	0,0287
2x1	8,40	100	34	19,50
2x1,5	9,40	128	38	13,30
2x2,5	11,00	181	44	7,98
2x4	12,60	248	63	4,95
2x6	14,00	318	70	3,30
2x10	19,60	601	98	1,91
2x16	22,00	799	132	1,21
2x25	26,80	1.184	161	0,78
3x1	9,10	121	36	19,50
3x1,5	10,10	153	40	13,30
3x2,5	11,80	217	47	7,98
3x4	13,50	300	68	4,95
3x6	15,00	390	75	3,30

Cross Section (mm <sup>2</sup> )	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
3x10	21,10	731	127	1,91
3x16	23,60	980	142	1,21
3x25	29,20	1.483	175	0,78
3x35	31,70	1.873	190	0,554
3x50	36,60	2.546	220	0,386
3x70	41,30	3.429	248	0,272
3x95	46,60	4.413	280	0,206
3x120	50,90	5.430	305	0,161
3x150	55,50	6.614	333	0,129
3x185	61,30	8.021	368	0,106
3x240	69,80	10627	419	0,0801
3x300	77,10	13055	463	0,0641
4x1	10,10	150	40	19,50
4x1,5	11,20	191	45	13,30
4x2,5	13,00	269	65	7,98
4x4	14,90	374	75	4,95
4x6	16,70	493	84	3,30
4x10	23,00	894	138	1,91
4x16	25,80	1.211	155	1,21
4x25	32,40	1.867	194	0,78
4x35	35,10	2.361	211	0,554
4x50	40,50	3.206	243	0,386
4x70	45,90	4.352	275	0,272
4x95	51,80	5.646	311	0,206
4x120	56,50	6.888	339	0,161
4x150	61,80	8.424	371	0,129
4x185	68,40	10.231	410	0,106
4x240	77,80	13535	467	0,0801
4x300	86,00	16633	516	0,0641
5x1	11,10	182	44	19,50
5x1,5	12,40	235	62	13,30
5x2,5	14,40	331	72	7,98

Cross Section (mm <sup>2</sup> )	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
5x4	16,70	469	84	4,95
5x6	19,00	622	95	3,30
5x10	25,30	1.091	152	1,91
5x16	28,60	1496	172	1,21
5x25	25,90	2302	155	0,78
6x1,5	14,60	317	73	13,30
6x2,5	16,80	438	84	7,98
6x4	19,30	609	97	4,95
7x1,5	14,60	327	73	13,30
7x2,5	16,80	454	84	7,98
7x4	19,30	635	97	4,95
12x1,5	19,20	531	96	13,30
12x2,5	22,10	739	133	7,98
12x4	25,80	1.061	155	4,95
18x1,5	22,40	742	134	13,30
18x2,5	26,00	1.050	156	7,98
18x4	30,30	1507	182	4,95
24x1,5	26,20	967	157	13,30
24x2,5	30,60	1.382	184	7,98
36x1,5	30,00	1.344	180	13,30
36x2,5	35,20	1.944	211	7,98