CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Seperator	A suitable tape may be applied over the conductor
Insulation	EI4 type cross-linked elastomeric compound, EPR (EN 50363-1)
Inner Sheath	EM2 or EM3 type cross-linked elastomeric compound (EN 50363-2-1) *If outer sheath thickness is greater than 2,4 mm*
Screen	Tinned copper wire braiding
Outer Sheath	EM2 type cross-linked elastomeric compound (EN 50363-2-1)
Color	Black (other colors available on request)

MAIN CHARACTERISTICS

Construction	Based on EN 50525-2-21, VDE 0285-2-21, IEC 60245-4
General Requirements	EN 50525-1, VDE 0285-525-1, IEC 60245-1
Guide to Use	EN 50565-1/2, VDE 0298-565-1
Electrical Tests	EN 50395, IEC 60245-2
Non-electrical Tests	EN 50396, IEC 60245-2
Conductor Resistance	IEC 60228, VDE 0295
Flame Retardant	IEC 60332-1-2, VDE 0482-332-1-2
Oil Resistant	EN 60811-404, VDE 0473-811-404

OPERATING CHARACTERISTICS

Rated Voltage	450/750 V (U_o/U)
AC Test Voltage	2,5 kV
Operating Tempetature	
In Flexing Use	-25˚C to +60˚C
In Fixed Use	-40˚C to +90˚C
Conductor Short-Circuit Temp.	200˚C (Max. 5 sec)
Min. Installation Temp.	-25˚C
Min. Bending Radius	Based on EN 50565-1 Tab. 3
Current Carrying Capacities	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 shielded, rubber sheathed flexible cables are used as power and control and signalling cables in open-built plants, industry works, electrical tools and mobile equipments under heavy conditions and medium mechanical stress. It's shielded for against electromagnetic disturbances. Due to it's construction it can be used indoor, outdoor, wet, oily, damp places and explosion hazard areas.

Cross Section (mm^2)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
1x16	12,50	295	75	1,21
1x25	14,90	423	89	0,78
1x35	16,20	539	97	0,554
1x50	18,50	722	111	0,386
1x70	20,80	975	125	0,272
1x95	23,40	1.257	140	0,206
1x120	25,50	1.545	153	0,161
1x150	27,70	1.879	166	0,129
1x185	30,40	2.255	182	0,106
1x240	34,10	2.960	205	0,0801
1x300	37,10	3579	223	0,0641
2x1,5	12,50	216	75	13,30
2x2,5	14,10	280	85	7,98
2x4	15,70	358	94	4,95
2x6	17,20	442	103	3,30
2x10	20,60	660	124	1,91
2x16	23,00	862	138	1,21
2x25	28,10	1.277	169	0,78
2x35	30,40	1.576	182	0,554
3x1	12,30	211	74	19,50
3x1,5	13,10	243	79	13,30
3x2,5	14,90	323	89	7,98
3x4	16,60	418	100	4,95
3x6	18,20	523	109	3,30
3x10	22,20	806	133	1,91
3x16	24,60	1.054	148	1,21
3x25	30,00	1.558	180	0,78
3x35	32,90	1.997	197	0,554
3x50	37,70	2.669	226	0,386
3x70	43,20	3.618	259	0,272
3x95	48,90	4702	293	0,206
3x120	54,00	5853	324	0,161

Cross Section (mm^2)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
4x1	13,30	248	80	19,50
4x1,5	14,20	289	85	13,30
4x2,5	16,10	383	97	7,98
4x4	18,00	503	108	4,95
4x6	19,90	637	119	3,30
4x10	24,40	992	146	1,91
4x16	26,80	1.294	161	1,21
4x25	33,40	1.979	200	0,78
4x35	36,30	2.495	218	0,554
4x50	41,70	3.356	250	0,386
4x70	48,40	4.674	290	0,272
4x95	54,60	5.992	328	0,206
4x120	60,30	7.511	362	0,161
5x1,5	15,30	337	92	13,30
5x2,5	17,40	451	104	7,98
5x4	19,80	609	119	4,95
5x6	21,40	758	128	3,30
5x10	26,30	1.173	158	1,91
5x16	39,60	1.582	238	1,21
5x25	37,00	2430	222	0,78
5x35	40,00	3049	240	0,554
5x50	46,30	4143	278	0,386
5x70	53,10	5740	319	0,272
5x95	60,20	7440	361	0,206
7x1,5	16,80	414	101	13,30
7x2,5	19,60	588	118	7,98
7x4	22,60	811	136	4,95
12x1,5	20,10	591	121	13,30
12x2,5	23,20	815	139	7,98
18x1,5	23,40	815	140	13,30
18x2,5	27,20	1.143	163	7,98
24x1,5	27,10	1.041	163	13,30

Cross Section (mm^2)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
24x2,5	31,90	1.507	191	7,98
36x1,5	31,00	1.443	186	13,30
36x2,5	36,50	2.079	219	7,98

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