



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	Special thermoplastic polyester elastomer, TPE-E Black cores number coded with a green-yellow core
Seperator	Textile tape or polyester tape
Outer Sheath	Thermoplastic polyurethane TPU (EN 50363-10-2)
Color	Grey, Orange or Black Other colors on request

MAIN CHARACTERISTICS

Construction	Based on EN 50525-2-21, VDE 0285, VDE 0250
General Requirements	EN 50525-1
Guide to Use	EN 50565-1/2
Electrical Tests	EN 50395
Non-electrical Tests	EN 50396
Conductor Resistance	IEC 60228, VDE 0295, BS 6360
Oil Resistant	IEC 60811-404, VDE 0473-811-404

OPERATING CHARACTERISTICS

Rated Voltage	300 /500 V (U ₀ /U)
AC Test Voltage	2 kV
Operating Temperature	
<i>In Flexing Use</i>	-40°C to +90°C
<i>In Fixed Use</i>	-50°C to +90°C
Conductor Short-Circuit Temp.	250°C (Max. 5 sec.)
Min. Installation Temp.	-40°C
Min. Bending Radius	
<i>Flexible Use</i>	10 x Outer Diameter
<i>Fixed Installation</i>	4 x Outer Diameter
Current Carrying Capacities	Based on VDE 0298-4 Tab.11 and Tab.13

APPLICATIONS

These polyurethane sheathed cables are used in mobile equipments, machines, production lines, industrial machinery and movable appliances which work under high mechanical stress. This cable is also very suitable for oily wet areas within production lines and agricultural equipments and machineries. Thanks to its characteristics they have high resistance to abrasion and tear.



Cross Section (mm²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
2x0,50	5,60	38	22	39,00
2x0,75	6,00	47	24	26,00
2x1	6,40	55	26	19,50
2x1,5	7,00	70	28	13,30
2x2,5	8,40	103	34	7,98
2x4	9,40	145	38	4,95
2x6	11,00	200	44	3,30
3x0,50	5,90	45	24	39,00
3x0,75	6,40	57	26	26,00
3x1	6,80	67	27	19,50
3x1,5	7,40	85	30	13,30
3x2,5	8,90	130	36	7,98
3x4	10,00	181	40	4,95
3x6	11,70	256	47	3,30
4x0,50	6,40	55	26	39,00
4x0,75	6,80	67	27	26,00
4x1	7,30	78	29	19,50
4x1,5	8,30	110	33	13,30
4x2,5	9,70	160	39	7,98
4x4	11,10	231	44	4,95
4x6	12,80	322	51	3,30
5x0,50	6,90	65	28	39,00
5x0,75	7,40	82	30	26,00
5x1	8,00	96	32	19,50
5x1,5	9,00	131	36	13,30
5x2,5	10,60	195	42	7,98
5x4	12,20	285	49	4,95
5x6	14,30	405	57	3,30
7x0,50	7,30	77	29	39,00
7x0,75	7,90	100	32	26,00
7x1	8,70	120	35	19,50
7x1,5	9,60	161	38	13,30
7x2,5	11,60	250	46	7,98
12x0,50	9,50	130	38	39,00
12x0,75	10,40	170	42	26,00
12x1	11,40	206	46	19,50

Cross Section (mm²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (fixed installation) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
12x1,5	12,60	280	50	13,30
12x2,5	15,30	430	61	7,98
18x0,50	11,10	185	44	39,00
18x0,75	12,10	240	48	26,00
18x1	13,10	290	52	19,50
18x1,5	14,80	396	59	13,30
18x2,5	18,00	620	72	7,98
21x0,50	11,70	210	47	39,00
21x0,75	12,80	275	51	26,00
21x1	14,00	331	56	19,50
21x1,5	15,60	450	62	13,30
21x2,5	19,20	710	77	7,98
25x0,50	13,10	255	52	39,00
25x0,75	14,60	345	58	26,00
25x1	15,80	411	63	19,50
25x1,5	17,80	565	71	13,30
25x2,5	21,90	885	88	7,98
27x0,50	13,10	261	52	39,00
27x0,75	14,60	355	58	26,00
27x1	15,80	430	63	19,50
27x1,5	17,80	581	71	13,30
27x2,5	21,90	920	88	7,98
32x0,50	14,20	310	57	39,00
32x0,75	15,60	410	62	26,00
32x1	17,10	506	68	19,50
32x1,5	19,30	686	77	13,30
32x2,5	23,50	1071	94	7,98
36x0,50	14,70	335	59	39,00
36x0,75	16,10	445	64	26,00
36x1	17,70	555	71	19,50
36x1,5	20,00	755	80	13,30
36x2,5	24,60	1190	98	7,98