



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	El6 type cross-linked elastomeric compound, EPR (EN 50363-1)
Outer Sheath	Thermoplastic polyurethane of type TPU (EN 50363-10-2)
Color	Orange (other colors available on request)

MAIN CHARACTERISTICS

Construction	EN 50525-2-21, VDE 0285-525-2-21, 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
Oil Resistant	EN 60811-404, VDE 0473-811-404

OPERATING CHARACTERISTICS

Rated Voltage	450/750 V (U ₀ /U)
AC Test Voltage	2,5 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	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 cables are flexible power cords of electrical tools and equipments, agricultural machines and for sea vessels power connection in marinas and shipyards. Thanks to it's construction it is suitable for cold storage applications and heating installations if there is no risk of contact with hot parts. Polyurethane outer sheath is robust and flexible that is resistant to medium mechanical stress, tear, abrasion and as well to oil, wet environments and UV too.



Cross Section (mm²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
2x1	7,60	66	30	19,50
2x1,5	8,30	82	33	13,30
2x2,5	9,40	113	38	7,98
2x4	11,00	164	44	4,95
2x6	12,20	215	40	3,30
2x10	17,00	399	32	1,91
2x16	18,60	532	23	1,21
3x1	8,10	80	32	19,50
3x1,5	8,70	97	35	13,30
3x2,5	10,00	139	40	7,98
3x4	11,70	203	47	4,95
3x6	13,20	276	44	3,30
3x10	18,30	504	35	1,91
3x16	20,10	688	24	1,21
4x1	9,10	102	36	19,50
4x1,5	9,80	124	39	13,30
4x2,5	11,20	178	45	7,98
4x4	13,10	260	65	4,95
4x6	14,70	353	49	3,30
4x10	20,20	636	39	1,91
4x16	22,10	869	27	1,21
5x1	10,10	122	40	19,50
5x1,5	11,00	149	44	13,30
5x2,5	12,40	215	99	7,98
5x4	14,50	315	72	4,95
5x6	16,30	430	54	3,30
5x10	22,30	769	43	1,91
5x16	24,60	1064	30	1,21