



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	Halogen-Free compound, TI6 type (EN 50363-7)
Core Identification	JZ: Black cores with a green yellow core OZ: Black cores without a green yellow core
Seperator	Polyester tape
Screen	Tinned copper wire braiding
Sheath	Halogen-Free compound, TM7 type (EN 50363-8)
Color	Grey

MAIN CHARACTERISTICS

Construction	Based on EN 50525-3-11, Based on BA 14122019, TS 13755
General Requirements	EN 50525-1, VDE 0812, EN 50575
Guide to Use	EN 50565-1/2
Electrical Tests	EN 50395
Non - electrical Tests	EN 50396
Conductor Resistance	IEC 60228, VDE 0295, BS 6360
Flame Retardant	IEC 60332-1-2, IEC 60332-3-24 Cat C
Halogen Content	IEC 60754-1/2
Smoke Density	IEC 61034-1/2

OPERATING CHARACTERISTICS

Rated Voltage	300/500 V (U ₀ /U)
AC Test Voltage	2 kV
Working Temperature	
<i>In Flexing Use</i>	-5°C to +70°C
<i>In Fixed Use</i>	-30°C to +70°C
Conductor Short-Circuit Temp.	150°C (Max. 5 sec)
Min. Installation Temp.	-5 °C
Min. Bending Radius	Based on EN 50565-1 Tab. 3
Current Carrying Capacities	Based on VDE 0298-4 Tab.11

APPLICATIONS

These cables are used for control, measuring and monitoring in engineering projects and various electronic systems in closed areas where electromagnetic disturbances exists and when higher safety required in case of fire.



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)
2x0,50	5,50	40	41	39,00
2x0,75	5,90	46	44	26,00
2x1	6,30	54	47	19,50
2x1,5	6,70	63	50	13,30
2x2,5	7,40	86	56	7,98
3x0,50	5,80	49	44	39,00
3x0,75	6,30	58	47	26,00
3x1	6,70	68	50	19,50
3x1,5	7,20	83	54	13,30
3x2,5	8,10	116	61	7,98
4x0,50	6,30	58	47	39,00
4x0,75	6,70	69	50	26,00
4x1	7,30	85	55	19,50
4x1,5	7,80	102	59	13,30
4x2,5	8,70	143	65	7,98
5x0,50	6,80	70	51	39,00
5x0,75	7,40	86	56	26,00
5x1	8,20	107	62	19,50
5x1,5	8,70	130	65	13,30
5x2,5	9,50	176	71	7,98
6x0,50	7,40	84	56	39,00
6x0,75	8,10	104	61	26,00
6x1	8,70	125	65	19,50
6x1,5	9,40	152	71	13,30
6x2,5	10,20	208	77	7,98
7x0,50	7,40	87	56	39,00
7x0,75	8,10	108	61	26,00
7x1	8,70	131	65	19,50
7x1,5	9,40	161	71	13,30
7x2,5	10,20	223	77	7,98
8x0,50	8,60	113	65	39,00
8x0,75	9,30	137	70	26,00

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)
8x1	10,00	164	75	19,50
8x1,5	11,00	206	83	13,30
8x2,5	12,00	283	90	7,98
10x0,50	9,20	123	69	39,00
10x0,75	10,00	148	75	26,00
10x1	11,00	185	83	19,50
10x1,5	11,90	228	89	13,30
10x2,5	13,00	319	98	7,98
12x0,50	9,50	138	71	39,00
12x0,75	10,40	169	78	26,00
12x1	11,40	210	86	19,50
12x1,5	12,20	260	92	13,30
12x2,5	13,70	376	103	7,98
14x0,50	9,90	155	74	39,00
14x0,75	11,00	194	83	26,00
14x1	11,90	237	89	19,50
14x1,5	12,80	295	96	13,30
14x2,5	14,30	427	107	7,98
16x0,50	10,40	173	78	39,00
16x0,75	11,60	219	87	26,00
16x1	12,50	268	94	19,50
16x1,5	13,70	340	103	13,30
16x2,5	15,10	485	113	7,98
18x0,50	11,10	198	83	39,00
18x0,75	12,10	243	91	26,00
18x1	13,10	298	98	19,50
18x1,5	14,40	379	108	13,30
18x2,5	15,80	541	119	7,98
25x0,50	13,10	263	98	39,00
25x0,75	14,60	334	110	26,00
25x1	15,80	411	119	19,50
25x1,5	17,20	521	129	13,30

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)
25x2,5	19,40	767	146	7,98
30x0,50	13,70	301	103	39,00
30x0,75	15,00	334	113	26,00
30x1	16,50	470	124	19,50
30x1,5	17,80	591	134	13,30
30x2,5	20,00	875	150	7,98