CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires (tinned conductor on request)
Insulation	Halogen-Free compound (EN 50290-2-26)
Seperator	Polyester tape
Core Identification	Up to including 10 cores DIN 47100 core colors Above 10 cores black cores with or without a green yellow core
Screen	Tinned copper wire braiding
Sheath	Halogen-Free compound (EN 50290-2-27)
Color	Grey

MAIN CHARACTERISTICS

Construction	Based on TS 13755, VDE 0812
General Requirements	EN 50290-2-20
Guide to Use	Based on. EN 50565-1/2, VDE 891 Part 1 to 10
Electrical Tests	EN 50395
Non - electrical Tests	EN 50396, EN 50290
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 Tempetature	-30˚C to +70˚C
Conductor Short-Circuit Temp.	160˚C (Max. 5 sec)
Min. Installation Temp.	0˚C
Min. Bending Radius	Based on. VDE 0891 - Part 5
Current Carrying Capacities	Based on VDE 0298-4 Tab.11

For all sections :
Mutual capacitance : Approx 120 nF/km
Inductivity : Approx 0,65 mH/km

APPLICATIONS

These cables are used for data transmission, signalling and monitoring in aumation, audio/vision, security and control systems indoor 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	47	44	26,00
2x1	6,30	55	47	19,50
2x1,5	6,70	64	50	13,30
2x2,5	7,38	87	55	7,98
3x0,50	5,80	49	44	39,00
3x0,75	6,30	58	47	26,00
3x1	6,70	69	50	19,50
3x1,5	7,18	85	54	13,30
3x2,5	8,08	118	61	7,98
4x0,50	6,30	59	47	39,00
4x0,75	6,70	70	50	26,00
4x1	7,28	86	55	19,50
4x1,5	7,78	104	58	13,30
4x2,5	8,68	146	65	7,98
5x0,50	6,80	71	51	39,00
5x0,75	7,38	88	55	26,00
5x1	8,18	110	61	19,50
5x1,5	8,68	132	65	13,30
5x2,5	9,48	180	71	7,98
6x0,50	7,40	85	56	39,00
6x0,75	8,08	106	61	26,00
6x1	8,68	127	65	19,50
6x1,5	9,38	155	70	13,30
6x2,5	10,18	213	76	7,98
7x0,50	7,40	89	56	39,00
7x0,75	8,08	111	61	26,00
7x1	8,68	134	65	19,50
7x1,5	9,38	165	70	13,30
7x2,5	10,18	229	76	7,98
8x0,50	8,60	116	65	39,00
8x0,75	9,28	140	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	9,98	168	75	19,50
8x1,5	10,98	212	82	13,30
8x2,5	11,98	291	90	7,98
10x0,75	9,98	152	75	26,00
10x1	10,98	189	82	19,50
10x1,5	11,88	234	89	13,30
10x2,5	12,98	327	97	7,98
12x0,75	10,38	173	78	26,00
12x1	11,38	216	85	19,50
12x1,5	12,18	267	91	13,30
12x2,5	13,68	386	103	7,98
14x0,75	10,98	199	82	26,00
14x1	11,88	244	89	19,50
14x1,5	12,78	304	96	13,30
14x2,5	14,28	439	107	7,98
16x0,75	11,58	225	87	26,00
16x1	12,48	275	94	19,50
16x1,5	13,68	350	103	13,30
16x2,5	15,08	499	113	7,98
18x0,75	12,08	249	91	26,00
18x1	13,08	306	98	19,50
18x1,5	14,38	390	108	13,30
18x2,5	15,78	556	118	7,98
25x0,75	14,58	343	109	26,00
25x1	15,78	422	118	19,50
25x1,5	17,20	520	129	13,30
25x2,5	19,40	790	146	7,98
30x0,75	14,98	384	112	26,00
30x1	16,48	484	124	19,50
30x1,5	17,80	590	134	13,30
30x2,5	20,00	901	150	7,98