



CABLE STRUCTURE

Conductor	Up to 25mm ² class 6 and 25 mm ² and above class 5 electrolytic annealed, plain copper wires (tinned conductor on request)
Separator	A suitable tape may be applied over the conductor
Insulation	3GI3 type rubber compound
Core Identification	Acc. to VDE0293-308
Screen	Tinned copper wires braiding (coverage min %80)
Sheath	5GM3 type rubber compound
Color	Black (other colors on request)

STANDARDS & MAIN CHARACTERISTICS

Construction	DIN VDE 0250-809
General Requirements	DIN VDE 0250-1
Guide to Use	DIN VDE 0298-3
Electrical Tests	DIN VDE 0472-501, 503, 508
Non-Electrical Tests	DIN VDE 0472-401, 402, 602, 303, 615
Under Fire Conditions Tests	DIN VDE 0472-803, 804
Flame Retardant	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1
Oil Resistant	HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

OPERATING CHARACTERISTICS

Rated Voltage	300 / 500 V, (0,6 / 1 kV)
Max. Operating AC Voltage	0,7 / 1.2 kV
Max. Operating DC Voltage	0,9 / 1.8 kV
AC Test Voltage	3,5 kV
Conductor Operating Temperature	Max. 90°C
Conductor Short-Circuit Temperature	Max. 250°C
Working Temperature	-
Fixed	50°C ... +90°C
Mobile	-30°C ... +90°C
Min Bending Radius	VDE 0298-3 Tab. 3
Current Carrying Capacities	VDE 0298-4
Travel Speed	
In festoon systems	Up to 180 m/min
Gantry (reeling operation)	No application
Max. tensile load of cable	15 N / mm ² for static
Torsional stress not allowed	

Application

Especially used for lifts, cranes, floor conveyor systems, elevators and festoon systems. Thanks to its flat structure, recommended for implementations where space is at a minimum and require smaller bending radius over that of round cables. Copper screens are efficient against electromagnetic effects caused by other cables.



Ozone Resistant



Cold Resistant



Tear Resistant



Uv Resistant



Electromagnetic Compatibility



Ex-Proof

Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
4 x 1,5	6,2 x 17,8 - 7,2 x 20,4	220
4 x 2,5	7,2 x 21,6 - 8,3 x 24,8	320
4 x 4	10,1 x 27,8 - 11,6 x 31,9	505
4 x 6	10,1 x 29,8 - 11,6 x 34,1	605
4 x 10	11,0 x 34,6 - 12,7 x 39,6	840
4 x 16	13,0 x 39,8 - 14,9 x 45,7	1180
4 x 25	14,4 x 45,1 - 16,5 x 51,7	1605
4 x 35	16,3 x 52,8 - 18,7 x 60,5	2520
4 x 50	19,1 x 61,8 - 21,7 x 66,0	2860
4 x 70	20,8 x 71,8 - 24,75 x 75,8	4790
4 x 95	23,25 x 80,2 - 27,25 x 84,0	5950
4 x 120	28,05 x 91,8 - 31,05 x 96,8	7750
5 x 1,5	5,95 x 26,55 - 7,95 x 28,55	440
5 x 2,5	7,25 x 30,65 - 9,25 x 32,65	590
5 x 4	8,55 x 34,75 - 10,55 x 36,75	770
5 x 6	9,15 x 37,75 - 11,15 x 39,75	920
5 x 10	10,65 x 45,25 - 12,65 x 47,25	1290
5 x 25	14,85 x 61,45 - 16,85 x 63,45	2490
7 x 1,5	5,95 x 34,85 - 7,95 x 36,85	570
7 x 2,5	7,25 x 40,35 - 9,25 x 42,35	790
7 x 4	8,55 x 45,85 - 10,55 x 47,85	1010
7 x 6	9,15 x 50,05 - 11,15 x 52,05	1220
7 x 10	10,0 x 57,6 - 12,0 x 59,6	1550
7 x 25	15,0 x 82,8 - 17,0 x 84,8	3350
7 x 35	16,3 x 94,8 - 18,7 x 99,8	4500
8 x 1,5	7,2 x 34,6 - 8,3 x 39,6	470
8 x 2,5	7,25 x 43,2 - 9,25 x 45,2	830
10 x 1,5	7,55 x 47,9 - 8,55 x 49,9	810
12 x 1,5	8,1 x 52,0 - 8,0 x 54,0	796
12 x 2,5	7,75 x 65,1 - 9,6 x 69,0	1020
24 x 1,5	8,15 x 112,6 - 9,15 x 114,6	1930
24 x 2,5	9,05 x 130,6 - 11,05 x 132,6	2760