



### CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded tinned copper wires (plain conductor on request)
Separator	A suitable tape may be applied over the conductor
Insulation	Special HEPR based elastomer compound providing very high stability
Lay Up & Support Element	Central aramid (kevlar) strength member, cores laid up in concentric layers with shorth length of layers with shorth length of lay
Core Identification	Acc. to VDE 0293-308
Inner Sheath	Special type of elastomer compound better than GM1b
Sheath	
Reinforcement	Antitorsion textile braided embedded sheath
Outer Sheath	Special rubber based heavy duty compound. Oil and chemical resistant, 5GM3/5GM5 abrasion and notch resistant
Color	Black or Yellow

### STANDARDS & MAIN CHARACTERISTICS

Construction	Based on DIN VDE 0250-814
General Requirements	DIN VDE 0250-1
Guide to Use	DIN VDE 0298-3
Electrical Tests	DIN VDE 0472-501, 502, 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	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	-40°C ... +80°C
Mobile	-25°C ... +80°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 horizontal up to 120 m / min vertical
Max. tensile load of cable	30 N / mm <sup>2</sup>

### Application

This -V type of cable has been specially developed and designed in order to provide a specific solution for vertical reeling applications As reeling cable for winding operation with tensile stress and/or torsional stress and for connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load, and as drum and drag cable in dry, damp or wet rooms and in wet industrial conditions.



Ozone Resistant



Cold Resistant



Tear Resistant



Mechanical Stresses Resistance



Uv Resistant



Ex-Proof

Cross Section (mm <sup>2</sup> )	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
7 x 1.5	16,9 - 19,2	430
12 x 1.5	23,0 - 25,4	810
18 x 1.5	23,1 - 25,6	870
24 x 1.5	26,5 - 29,2	1100
30 x 1.5	29,6 - 33,1	1420
36 x 1.5	29,8 - 34,0	1460
6 x 2.5	18,6 - 21,3	590
12 x 2.5	25,5 - 28,8	1050
18 x 2.5	25,7 - 29,2	1130
24 x 2.5	29,8 - 33,2	1560
30 x 2.5	34,0 - 37,2	2000
36 x 2.5	34,2 - 37,4	2070
7 x 4	21,4 - 23,5	820
12 x 4	29,8 - 33,0	1550
18 x 4	30,0 - 33,2	1680
20 x 6	39,0 - 42,5	2800
4 x 10	21,7 - 27,8	1020
4 x 16	25,4 - 32,3	1380
4 x 25	29,6 - 39,8	1980
4 x 35	32,6 - 43,6	2620
4 x 50	40,8 - 51,0	3610
4 x 70	46,5 - 58,6	5300
4 x 95	52,7 - 66,2	7010
42 x 2.5	35,0 - 38,0	2160
44 x 2.5	36,1 - 39,0	2300
45 x 2,5	39,0 - 41,0	2400
56 x 2.5	42,1 - 45,2	3040
49 x 1	27,0 - 30,0	1300