



CABLE STRUCTURE

Conductor	Electrolytic, stranded, tinned copper wire DIN VDE 0295 Class 5
Insulation	All cores are insulated with 3GI3 compound (acc. to DIN VDE 0207 Part 20).
Screen	...3/E coded types has individual screens made by laying up tinned copper wires over the insulation.
Lay Up	All cores are laid up in contact with each other and intersitial ground cores.
Inner Sheath	Special elastomeric compound GM1b (acc. to DIN VDE 0207 Part 21)
Screen	...kon coded types has a concentric overall screen made of tinned copper wires in between inner and outer sheaths
Outer Sheath	Heavy-duty elastomer outer sheath 5GM5 (acc. to DIN VDE 0207 Part 21)

PRODUCTION AND TEST STANDARDS

Construction	DIN VDE 0250-812
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	0,6 / 1 kV
Max. Permissible Operating Voltage AC	0,7 / 1,2 kV
Max. Permissible Operating Voltage DC	0,9 / 1,8 kV
AC Test Voltage	3 kV
Min Bending Radius	VDE 0298-3 Tab. 3
Current Carrying Capacities	VDE 0298-4
Working Temperature	
Fixed	-40°C ... +80°C
Mobile	-25°C ... +80°C
Max. Tensile Load of Cable	15N/mm ²

Application

For use in mines, quarries, industrial areas, construction sites, agricultural operations and as trailing cable. The cables are also suitable for fixed application as power supply cable for underground mining and open-cast mining applications, for tunnelling applications and similar applications.



Ozone
Resistant



Cold
Resistant



Tear
Resistant



Uv Resistant



Weather
Resistant



Moisture
Resistant



Ex-Proof

Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Approximate weight (kg / km)
1 x 1,5	6,0 - 6,6	56
1 x 2,5	6,7 - 7,4	73
1 x 4	7,3 - 8,1	95
1 x 6	7,8 - 8,6	117
1 x 10	9,2 - 10,2	174
1 x 16	10,2 - 11,2	236
1 x 25	13,1 - 14,1	372
1 x 35	14,0 - 15,4	470
1 x 50	15,8 - 17,4	626
1 x 70	18,0 - 19,8	866
1 x 95	19,0 - 21,9	1906
1 x 120	22,0 - 24,4	1382
1 x 150	23,8 - 26,3	1675
1 x 185	26,9 - 29,7	2072
1 x 240	30,0 - 33,2	2710
1 x 300	33,6 - 37,2	3372
1 x 400	38,3 - 42,3	4320
1 x 500*	41,0 - 45,4	5582
2 x 1,5	10,8 - 12,0	170
2 x 2,5	12,1 - 13,3	217
2 x 4	14,5 - 16,10	321
2 x 6	15,6 - 17,2	386
2 x 10	19,2 - 21,2	597
2 x 16	21,1 - 23,3	770
2 x 25	26,4 - 29,2	1186
2 x 35	28,1 - 31,1	1440
2 x 50	33,1 - 36,5	2001
2 x 70	38,0 - 42,0	2753
2 x 95	41,8 - 46,2	3414
2 x 120	46,7 - 51,7	4315

Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Approximate weight (kg / km)
3 x 1,5	11,3 - 12,5	192
3 x 2,5	12,7 - 14,1	254
3 x 4	15,3 - 16,9	377
3 x 6	16,3 - 18,1	456
3 x 10	20,2 - 22,4	715
3 x 16	22,2 - 24,6	937
3 x 25	27,9 - 30,9	1444
3 x 35	31,1 - 34,3	1885
3 x 50	36,3 - 40,1	2600
3 x 70	40,2 - 44,4	3416
3 x 95	46,0 - 50,8	4466
3 x 120	49,5 - 54,7	5397
3 x 150	53,1 - 58,7	6451
3 x 185	59,6 - 65,8	7953
4 x 1,5	12,2 - 13,4	224
4 x 2,5	14,7 - 16,3	337
4 x 4	16,3 - 18,1	440
4 x 6	17,6 - 19,4	542
4 x 10	21,9 - 24,2	852
4 x 16	25,1 - 27,7	1216
4 x 25	31,3 - 34,5	1853
4 x 35	33,5 - 37,1	2324
4 x 50	39,2 - 43,2	3210
4 x 70	43,6 - 48,2	4240
4 x 95	50,0 - 55,2	5540
4 x 120	55,6 - 61,4	6985
4 x 150	60,0 - 66,3	8385
4 x 185	67,0 - 74,0	10285
4 x 240 *	74,5 - 82,3	13130
4 x 300*	81,0 - 89,6	16155