



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.



Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Approximate weight (kg / km)
1 x 16	11.0 - 14.0	250
1 x 25	13.0 - 18.0	400
1 x 35	14.0 - 18.0	500
1 x 50	16.0 - 19.0	700
1 x 70	18.0 - 21.0	950
1 x 95	20.0 - 24.0	1200
1 x 120	23.0 - 26.0	1500
1 x 150	25.0 - 28.0	1800
1 x 185	28.0 - 31.0	2300
1 x 240	32.0 - 36.0	3000
3 x 1,5	11.0 - 14.0	250
3 x 2,5	13.0 - 16.0	300
3 x 2,5	13.0 - 16.0	300
4 x 2,5	15.0 - 18.0	400
4 x 4	17.0 - 20.0	500
4 x 6	19.0 - 22.0	600
4 x 10	23.0 - 26.0	950
4 x 16	27.0 - 30.0	1400
4 x 25	33.0 - 37.0	2100
4 x 35	35.0 - 39.0	2600
4 x 50	42.0 - 46.0	3700
4 x 70	45.0 - 49.0	4600
4 x 95	53.0 - 57.0	6300
4 x 120	59.0 - 63.0	7800
5 x 4	19.0 - 22.0	600
5 x 6	21.0 - 24.0	750
7 x 2,5	18.0 - 21.0	600
12 x 2,5	23.0 - 26.0	850
19 x 2,5	28.0 - 32.0	1200

Cross Section (mm ²)	Overall Diameter Min - Max (mm)	Approximate weight (kg / km)
3x25+3x25/3E	16.0 - 19.0	350
3x4+3x4/3E	19.0 - 22.0	500
3x6+3x6/3E	20.0 - 23.0	600
3x10+3x10/3E	24.0 - 28.0	950
3x16+3x16/3E	27.0 - 30.0	1200
3x25+3x16/3E	29.0 - 33.0	1800
3x35+3x16/3E	34.0 - 38.0	2300
3x50+3x25/3E	40.0 - 44.0	3300
3x70+3x35/3E	44.0 - 48.0	4100
3x95+3x50/3E	50.0 - 55.0	5500
3x120+3x70/3E	55.0 - 60.0	6800
3x150+3x70/3E	59.0 - 64.0	8000
3x25+3x25/3E+3x15St	18.0 - 20.0	500
3x4+3x4/3E+3x15St	19.0 - 22.0	550
3x6+3x6/3E+3x15St	20.0 - 24.0	650
3x10+3x10/3E+3x25St	24.0 - 28.0	1000
3x16+3x16/3E+3x25St	27.0 - 30.0	1300
3x25+3x16/3E+3x25St	30.0 - 34.0	1800
3x35+3x16/3E+3x25St	34.0 - 38.0	2400
3x50+3x25/3E+3x25St	40.0 - 44.0	3200
3x70+3x35/3E+3x25St	44.0 - 48.0	4200
3x95+3x50/3E+3x25St	48.0 - 53.0	5600
3x120+3x70/3E+3x25St	51.0 - 56.0	6800
3x150+3x70/3E+3x25St	59.0 - 64.0	8100
3x25/25 kon	15.0 - 18.0	350
5x25/25 kon	19.0 - 23.0	500
5x4/4 kon	20.0 - 23.0	650
5x6/6 kon	21.0 - 24.0	800
10x15/15 kon	20.0 - 24.0	800
10x25/25 kon	26.0 - 29.0	1100

