



CABLE STRUCTURE

Conductor	Electrolytic, stranded, tinned copper wire DIN VDE 0295 Class 5
Insulation	3GI3 type EPR Compound
Electrical Field Control	Inner and outer semiconductive layer of semiconductive rubber
Protective-Earth Conductor	Tinned copper conductor with semiconductive layer
Lay Up	Three main conductors laid-up with three control cores in the outer interstice
Inner Sheath	Special EPR compound better than GM1b type
Reinforcement	Embedded braid made of anti torsion synthetic threads
Outer Sheath	5GM5 type elastomer compound, Red

STANDARDS & MAIN CHARACTERISTICS

Construction	DIN VDE 0250-813
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 (kV)	3,6/6	6/10	8,7/15	12/20
Ac Test Voltage (kV)	11	17	24	29
Max. Operating Ac Voltage (kV)	4,2 / 7,2	6,9 / 12	10,4 / 18	13,9 / 24
Max. Operating Dc Voltage (kV)	5,4 / 10,8	9 / 18	13,5 / 27	18 / 36
Min Bending Radius	Acc. to DIN VDE 0298 part 3			
Current Carrying Capacity	According to DIN VDE 0298, Part 4			
Working Temperature	Fixed Mobile			
	-40°C ... +80°C -30°C ... +80°C			
Max. Tensile Load Of Cable	15 N / mm ²			
Max. Torsion	±25°/m			
Travel Speed	up to. 200 m/min. horizontal			
Minimum distance for change of direction	20 X D			

Application

For the connection of electrical equipment, large material handling machines such as excavators, cranes, dumpers in mining and tunnelling applications. The flexible cable design allows for movement of the equipment during operation.



Ozone Resistant



Cold Resistant



Tear Resistant



Uv Resistant



Weather Resistant



Moisture Resistant



Ex-Proof

3,6/6 kV

Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
3 x 25 + 3 x 25/3	41.8 - 45.0	2530
3 x 35 + 3 x 25/3	44.2 - 48.9	2900
3 x 50 + 3 x 25/3	48.5 - 51.4	3600
3 x 70 + 3 x 35/3	52.6 - 55.6	4400
3 x 95 + 3 x 50/3	55.7 - 58.8	5630
3 x 120 + 3 x 70/3	59.6 - 65.9	6200

6/10 kV

Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
3 x 25 + 3 x 25/3	43.6 - 48.1	2600
3 x 35 + 3 x 25/3	45.6 - 50.4	2980
3 x 50 + 3 x 25/3	48.3 - 51.4	3720
3 x 70 + 3 x 35/3	53.4 - 59.1	4510
3 x 95 + 3 x 50/3	57.1 - 63.2	5720
3 x 120 + 3 x 70/3	63.0 - 69.7	6300

8,7/15 kV

Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
3 x 25 + 3 x 25/3	48.1 - 53.2	3675
3 x 35 + 3 x 25/3	51.8 - 57.3	4415
3 x 50 + 3 x 25/3	55.5 - 61.4	5135
3 x 70 + 3 x 35/3	58.0 - 64.1	6005
3 x 95 + 3 x 50/3	63.4 - 70.1	7200
3 x 120 + 3 x 70/3	67.5 - 74.6	8700

12/20 kV

Cross Section (mm ²)	Overall Diameter Min. - Max. (mm)	Approximate Weight (kg / km)
3 x 25 + 3 x 25/3	51.1 - 55.3	4460
3 x 35 + 3 x 25/3	54.0 - 58.2	4990
3 x 50 + 3 x 25/3	59.4 - 63.6	5740
3 x 70 + 3 x 35/3	64.2 - 68.4	6950
3 x 95 + 3 x 50/3	69.6 - 73.8	7870
3 x 120 + 3 x 70/3	73.6 - 77.8	9425

