



## CABLE STRUCTURE

<b>Conductor</b>	Electrolytic annealed, class 5 stranded tinned copper wires
<b>Insulation</b>	3GI3 type cross-linked elastomeric compound (VDE 0207 - Part 20)
<b>Screen</b>	Concentric tinned copper wire braiding
<b>Inner Sheath</b>	GM1b type cross-linked elastomeric compound (VDE 0207 - Part 21)
<b>Outer Sheath</b>	5GM5 type cross-linked elastomeric compound (VDE 0207 - Part 21)
<b>Color</b>	Yellow or Black

## MAIN CHARACTERISTICS

<b>Construction</b>	VDE 0250-812
<b>General Requirements</b>	VDE 0250-1
<b>Guide to Use</b>	VDE 0298-3, VDE 0298-4
<b>Electrical Tests</b>	VDE 0472-501, 502, 503, 508, 512
<b>Non-electrical Tests</b>	VDE 0472-401, 402, 602, 303, 615, 613
<b>Conductor Resistance</b>	VDE 0295, IEC 60228
<b>Flame Retardant</b>	IEC 60332-1-2, VDE 0482-332-1-2
<b>Oil Resistant</b>	VDE 0473-811-404, EN 60811-404

## OPERATING CHARACTERISTICS

<b>Rated Voltage</b>	600 / 1000 V ( $U_0/U$ )
<b>AC Test Voltage</b>	3 kV
<b>Operating Temperature</b>	
<i>In Flexing Use</i>	-25°C to +80°C
<i>In Fixed Use</i>	-40°C to +80°C
<b>Max. Conductor Operating Temp.</b>	90°C
<b>Conductor Short-Circuit Temp.</b>	250°C (Max. allowable time 5 sec)
<b>Min. Installation Temp.</b>	-15°C
<b>Min. Bending Radius</b>	VDE 0298-3 Tab.3
<b>Current Carrying Capacities</b>	VDE 0298-4 Tab. 15

## APPLICATIONS

The cables are suitable for fixed installation and flexible operation as motor power supply cables for frequency converter controlled drives in the mining and tunneling



ELECTROMAGNETIC  
COMPATIBILITY



MECHANICAL  
STRESSES RESISTANT



OIL RESISTANT



TEAR RESISTANT



UV RESISTANT



WEATHER RESISTANT

Cross Section (mm <sup>2</sup> )	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min.Bending Radius (free movement) (mm)	Max. Resistance of Conductors at 20°C (ohm / km)
2x1,5	12,50	228	63	13,70
2x2,5	14,30	291	72	8,21
2x4	17,30	445	87	5,09
2x6	18,40	519	92	3,39
2x10	22,20	764	111	1,95
2x16	24,40	964	122	1,24
3x35+3x16/3	33,20	2151	166	0,565
3x50+3x25/3	40,20	3171	201	0,393
3x70+3x35/3	45,40	4165	227	0,277
3x95+3x50/3	49,50	5161	248	0,21
3x120+3x70/3	56,50	6840	283	0,164
3x150+3x70/3	58,40	7537	292	0,132
3x185+3x95/3	63,00	8900	315	0,108
3x240+3x120/3	73,80	11846	369	0,0801
4x1,5	14,00	298	70	13,70
4x2,5	17,30	459	87	8,21
4x4	18,80	572	94	5,09
4x6	20,10	680	101	3,39
4x10	24,60	1029	123	1,95
4x16	28,20	1415	141	1,24