



Construction:

Conductor	: tinned copper.
Conductor construction	: fine stranded, class 5.
Insulation	: rubber 3GI3.
Central filling element	: semiconductive compound on polyester support.
Arrangement of protective conductors	: split into three elements in outer interstices.
Covering of strand	: semiconductive tape.
Inner sheath	: rubber GM1b.
Torsion protecting element	: polyester braid.
Sheathing material	: rubber (CR) 5GM3.
Colour of outer sheath	: red.

Technical data and tests:

	<i>6/10 kV</i>	<i>12/20 kV</i>
Rated voltage U_0 :	6 kV	12 kV.
Rated voltage U:	10 kV	20 kV.
Maximum permitted operating voltage in 3-phase systems:	12 kV	24 kV.
Test voltage:	17 kV	29 kV.
Maximum operating temperature, fixed	: $-40^{\circ} \sim +80^{\circ}$ C.	
Temperature, moved/during installation	: $-20^{\circ} \sim +80^{\circ}$ C.	
Maximum temperature at conductor	: 90° C.	
Bending radius, fixed installation	: 6 x DA.	
Bending radius, moved application	: 15 x DA.	
Working speed	: 120 m/min.	
UV resistant	: yes.	
Ozone resistant	: yes.	
Oil, lye and grease resistant	: yes.	
Flame retardant	: yes.	

Standards:

Cable	: VDE 0250-813.
Flame retardant	: VDE 0482-332-1-2/IEC 60332-1.
Oil resistant	: EN 60811-2-1.

Applications:

Power cable for mobile connections, designed for high mechanical stresses (tensile strength and torsion), for heavy duty conditions: all weather conditions, abrasion and crushing. The cable is typically used in winding drums for harbour cranes, container cranes, conveyors, handling machines, and mining & tunnelling equipment.



DIMENSIONS

No. of conductors x cross section	Conductor resistance Ω/km	Ampacity (in air) A	Short circuit current (1 s) kA	Outer diameter mm	Tensile strength (during installation) N	Copper weight kg/km	Weight kg
6/10 kV							
3X25 + 3X25/3	0,78	131	3,58	41,7	1500	960	2390
3X35 + 3X25/3	0,554	162	5,01	46,2	2100	1248	2970
3X50 + 3X25/3	0,386	202	7,15	49,5	2250	1680	3640
3X70 + 3X35/3	0,272	250	10	53,4	4200	2352	4640
3X95 + 3X50/3	0,206	301	13,6	59,7	4275	3216	5800
3X120 + 3X70/3	0,161	352	17,16	63,6	7200	4128	7040
3X150 + 3X70/3	0,129	404	21,45	70,5	9000	4992	8570
3X185 + 3X95/3	0,106	462	26,46	74,2	11100	6240	10080
12/20 kV							
3X25 + 3X25/3	0,78	139	3,58	50,2	1500	960	3200
3X35 + 3X25/3	0,554	172	5,01	51,8	2100	1248	3690
3X50 + 3X25/3	0,386	215	7,15	56,8	2250	1680	4400
3X70 + 3X35/3	0,272	265	10	61	4200	2352	5540
3X95 + 3X50/3	0,206	319	13,6	65	4275	3216	6660
3X120 + 3X70/3	0,164	371	14,64	70,4	5400	4128	8200