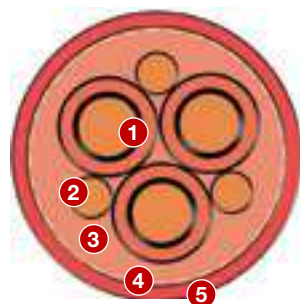


UTVFLEX® - TM/MT

DIN VDE 0250 Part 813

Flexible reeling cable with reduced weight and dimensions for high and extreme mechanical stresses, e.g. torsional stress, deflection into different planes and high reeling speed.



- 1 PHASE CONDUCTORS**
 MATERIAL: tinned copper
 CONSTRUCTION: class 5 VDE 0295 (IEC 60228)*
 INSULATION MATERIAL: 3GI3 quality rubber compound, according to VDE 0207 Part 20
 SEMICONDUCTIVE LAYERS: semiconductive tape over the conductor and inner and outer semiconductive rubber layer on the insulation

- 2 EARTH CONDUCTORS**
 MATERIAL: tinned copper
 CONDUCTOR CONSTRUCTION: class 5 VDE 0295 (IEC 60228)*
 COVERING MATERIAL: semiconductive layer

- CENTRAL FILLER**
 MATERIAL: semiconductive compound on textile polyester support

- CORES ASSEMBLY**
 ASSEMBLY: twisted cores with earth conductor split into 3 parts
 SEPARATOR ON THE TWISTED ASSEMBLY: semiconductive tape wound on the twisted cores

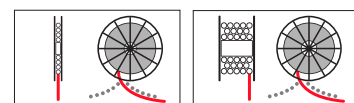
- 3 INNER SHEATH**
 MATERIAL: Gm1b/5GM5 quality rubber compound, according to VDE 0207 Part 21
 THICKNESS: according to VDE 0250 Part 813 (table 2)

- 4 ANTITWISTING ELEMENT**
 MATERIAL: polyester braid between inner and outer sheath

- 5 OUTER SHEATH**
 MATERIAL: 5GM5 quality rubber compound, according to VDE 0207 Part 21
 THICKNESS: according to VDE 0250 Part 813 (table 2)

*Special construction for higher flexibility

APPLICATION



ELECTRICAL WORKING DATA

Nominal rated voltage U_0 / U	kV	3,6/6	6/10	8,7/15	12/20
Test voltage	kV	11	17	24	29
Max AC voltage	kV	4,2/7,2	6,9/12	10,4/18	13,9/24
Electrical field control	Inner and outer semiconductive layers extruded in a single pass with the insulation				
Current rating	A	According to VDE 0298 Part 4			

THERMAL WORKING DATA

Maximum short circuit temperature	°C	250
Maximum working temp. on the conductor	°C	90
Ambient temperature	°C	Mobile condition: -25 to +80 Static condition: -40 to +80

MECHANICAL WORKING DATA

Bending radius	mm	According to VDE 0298 Part 3
Submersible	%/m	±25
Maximum tensile load*	N/mm ²	20
Max working speed	m/min	120
Special test	Reeling test	

* Referred to the total phase conductors cross section
 Upon request it's available the KN version with improved mechanical characteristics designed for ASC's and ARMG's

CHEMICAL WORKING DATA

Burning behaviour	Flame retardant according to IEC 60332-1-2
Resistance to oil	According to IEC 60811-2-1
Ozone resistance	According to IEC 60811-2-1
Weather resistance	For indoor and outdoor application

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VOLTAGE kV	CORES X CROSS SECTION Nr × mm ²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
3,6/6	3×25 + 3×25/3	6,8	39,9	41,6	2390	1500
3,6/6	3×35 + 3×25/3	7,8	42,9	44,6	2970	2100
3,6/6	3×50 + 3×25/3	9,4	46,0	47,7	3600	3000
3,6/6	3×70 + 3×35/3	11,2	49,8	51,6	4600	4200
3,6/6	3×95 + 3×50/3	12,7	55,8	57,6	5800	5700
3,6/6	3×120 + 3×70/3	14,4	59,6	61,4	7070	7200
3,6/6	3×150 + 3×70/3	16,3	66,0	68,3	8870	9000
3,6/6	3×185 + 3×95/3	17,6	67,9	70,2	9980	11100

6/10	3×25 + 3×25/3	6,8	39,9	41,6	2390	1500
6/10	3×35 + 3×25/3	7,8	42,9	44,6	2970	2100
6/10	3×50 + 3×25/3	9,4	46,0	47,7	3600	3000
6/10	3×70 + 3×35/3	11,2	49,8	51,6	4600	4200
6/10	3×95 + 3×50/3	12,7	55,8	57,6	5860	5700
6/10	3×120 + 3×70/3	14,4	59,6	61,4	7120	7200
6/10	3×150 + 3×70/3	16,3	66,0	68,3	8930	9000
6/10	3×185 + 3×95/3	17,6	67,9	70,2	10080	11100

VOLTAGE kV	CORES X CROSS SECTION Nr × mm ²	CONDUCTOR Ø mm	MIN OVERALL Ø mm	MAX OVERALL Ø mm	APPROX WEIGHT kg/km	MAX TENSILE LOAD N
8,7/15	3×25 + 3×25/3	6,8	44,7	46,4	2800	1500
8,7/15	3×35 + 3×25/3	7,8	46,2	47,9	3160	2100
8,7/15	3×50 + 3×25/3	9,4	49,4	51,2	3960	3000
8,7/15	3×70 + 3×35/3	11,2	55,0	56,8	5020	4200
8,7/15	3×95 + 3×50/3	12,7	58,4	60,2	5840	5700
8,7/15	3×120 + 3×70/3	14,4	63,9	66,2	7420	7200
8,7/15	3×150+3×70/3	16,3	68,5	70,9	8620	9000

12/20	3×25 + 3×25/3	6,8	47,3	49,0	3340	1500
12/20	3×35 + 3×25/3	7,8	48,8	50,6	3690	2100
12/20	3×50 + 3×25/3	9,4	53,7	55,5	4640	3000
12/20	3×70 + 3×35/3	11,2	57,5	59,3	5720	4200
12/20	3×95 + 3×50/3	12,7	60,8	63,1	6660	5700
12/20	3×120 + 3×70/3	14,4	66,4	68,7	8200	7200

