



FLEXIDRUM® MEDIUM (N) TSCGECEWÖU WATER.../3E

From 1,8/3 Kv to 18/30 kV, with core copper screen



For use in water!



Construction:

Conductor:	tinned copper flexible class 5, acc. to DIN VDE 0295
Insulation:	EPR compound 3GI3
Stranding of earth conductor:	single concentric earth conductors arranged over the insulation of the three power cores
Electrical range control:	Inner and outer semiconductive layer of semi-conductive rubber and single concentric metallic earth-conductor
Core identification:	POWER: Natural coloring with black semi-conductive rubber
Stranding:	Three power conductors placed
Inner sheath:	EPR compound GM1b
Outer sheath:	RED PCP compound 5GM3

Technical data:

Rated voltage Uo/U Kv:	1,8/3	3,6/6	6//10	8,7/15	12/20	14/25	18/30
Max oper. voltage in A.C. systems Uo/U kV:	2,1/3,6	4,7/7,2	6,9/12	10,4/18	13,9/24	17,3/30	20,8/36
Max oper. voltage in A.C. systems Uo/U kV:	2,7/5,4	5,4/10,8	9/18	13,5/27	18/36	22,5/45	27/54
A.C. test voltage Kv:	6	11	17	24	29	36	43
Min. Bending radius:	see MIN. BENDING RADIUS table						
Temperature range:							
Fixed installation:	- 40°C + 80°C						
Flexible application:	- 25°C + 60°C						
Max permissible water temp. :	+ 40°C						
Max permissible temp. on conductor:	+ 90°C						
Short circuit temp. of the conductor:	+ 250°C						
Tensile load:	up to 15 N/mm ²						
Torsional stress:	+/-25°/mm						
Oil resistant:	acc. to DIN VDE 0473, part 811-2-1, par. 10, IEC-EN 60811-2-1						
Fire resistant:	acc. to VDE 0482, part 332-1-2, IEC-EN 60332-1-2						
Water resistant:	very good, acc. to HD 22.16						
Weather resistant:	outdoors and indoors use ozone, UV and moisture resistant						
Approvals on request:	Gost-R and others						

Applications:

- ▶ Power supply cable for use in water: connection to dredgers, pumps, ect.
- ▶ High-mechanical stresses
- ▶ Use in waste water, salt water and salty water
- ▶ Cold version -50°C possible

1,8/3 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight. kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07900363W3E	3x25+3x16/3E	39,5	873,6	2440	1125	4
07900364W3E	3x35+3x16/3E	43,4	1161,6	3020	1575	2
07900365W3E	3x50+3x25/3E	49,1	1680,0	3615	2250	1
07900366W3E	3x70+3x35/3E	53,5	2352,0	4910	3150	2/0
07900367W3E	3x95+3x50/3E	58,4	3216,0	6114	4275	3/0
07900368W3E	3x120+3x70/3E	61,9	4128,0	7305	5400	4/0
07900369W3E	3x150+3x70/3E	67,7	4992,0	8698	6750	250 MCM
07900370W3E	3x185+3x95/3E	71,5	6240,0	10167	8325	350 MCM



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3,6/6 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07901363W3E	3x25+3x16/3E	44,5	873,6	2920	1125	4
07901364W3E	3x35+3x16/3E	47,3	1161,6	3345	1575	2
07901365W3E	3x50+3x25/3E	51,1	1680,0	3998	2250	1
07901366W3E	3x70+3x35/3E	57,1	2352,0	5339	3150	2/0
07901367W3E	3x95+3x50/3E	61,2	3216,0	6460	4275	3/0
07901368W3E	3x120+3x70/3E	66,5	4128,0	8150	5400	4/0
07901369W3E	3x150+3x70/3E	70,6	4992,0	9020	6750	250 MCM
07901370W03E	3x185+3x95/3E	74,3	6240,0	10575	8325	350 MCM

6/10 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07902363W3E	3x25+3x16/3E	45,6	873,6	3055	1125	4
07902364W3E	3x35+3x16/3E	48,3	1161,6	3530	1575	2
07902365W3E	3x50+3x25/3E	53,3	1680,0	4377	2250	1
07902366W3E	3x70+3x35/3E	58,7	2352,0	5543	3150	2/0
07902367W3E	3x95+3x50/3E	62,6	3216,0	6672	4275	3/0
07902368W3E	3x120+3x70/3E	68,1	4128,0	8170	5400	4/0
07902369W3E	3x150+3x70/3E	72,0	4992,0	9340	6750	250 MCM
07902370W3E	3x185+3x95/3E	77,6	6240,0	11145	8325	350 MCM

8,7/15 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07903363W3E	3x25+3x16/3E	50,6	873,6	3570	1125	4
07903364W3E	3x35+3x16/3E	55,0	1161,6	4270	1575	2
07903365W3E	3x50+3x25/3E	57,9	1680,0	4930	2250	1
07903366W3E	3x70+3x35/3E	65,1	2352,0	6430	3150	2/0
07903367W3E	3x95+3x50/3E	68,9	3216,0	7620	4275	3/0
07903368W3E	3x120+3x70/3E	72,6	4128,0	8890	5400	4/0
07903369W3E	3x150+3x70/3E	78,5	4992,0	10420	6750	250 MCM
07903370W3E	3x185+3x95/3E	82,3	6240,0	11990	8325	350 MCM

RoHS FLEXIDRUM® MEDIUM (N)TSCGECEWÖU WATER.../3E

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12/20 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07904363W3E	3x25+3x16/3E	56,6	873,6	4290	1125	4
07904364W3E	3x35+3x16/3E	59,2	1161,6	4800	1575	2
07904365W3E	3x50+3x25/3E	62,1	1680,0	5530	2250	1
07904366W3E	3x70+3x35/3E	69,3	2352,0	7105	3150	2/0
07904367W3E	3x95+3x50/3E	73,4	3216,0	8290	4275	3/0
07904368W3E	3x120+3x70/3E	78,6	4128,0	9920	5400	4/0
07904369W3E	3x150+3x70/3E	82,7	4992,0	11187	6750	250 MCM
07904370W3E	3x185+3x95/3E	86,5	6240,0	12770	8325	350 MCM

14/25 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07905363W3E	3x25+3x16/3E	62,3	873,6	5030	1125	4
07905364W3E	3x35+3x16/3E	66,4	1161,6	5828	1575	2
07905365W3E	3x50+3x25/3E	69,5	1680,0	6612	2250	1
07905366W3E	3x70+3x35/3E	74,8	2352,0	7978	3150	2/0
07905367W3E	3x95+3x50/3E	80,6	3216,0	9550	4275	3/0
07905368W3E	3x120+3x70/3E	84,1	4128,0	10925	5400	4/0
07905369W3E	3x150+3x70/3E	89,8	4992,0	12578	6750	250 MCM
07905370W3E	3x185+3x95/3E	93,9	6240,0	14275	8325	350 MCM

18/30 kV

Part no.	No. of cores x cross-section n x mm ²	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no. *)
07906363W3E	3x25+3x16/3E	69,0	873,6	6045	1125	4
07906364W3E	3x35+3x16/3E	71,5	1161,6	6610	1575	2
07906365W3E	3x50+3x25/3E	74,6	1680,0	7418	2250	1
07906366W3E	3x70+3x35/3E	81,7	2352,0	9189	3150	2/0
07906367W3E	3x95+3x50/3E	85,5	3216,0	10505	4275	3/0
07906368W3E	3x120+3x70/3E	91,2	4128,0	12280	5400	4/0
07906369W3E	3x150+3x70/3E	94,6	4992,0	13638	6750	250 MCM
07906370W3E	3x185+3x95/3E	100,8	6240,0	15780	8325	350 MCM

Other construction and sizes are available on request