

CABLE REELS

FLEXIDRUM® MEDIUM (N)TSCGEWÖU WATER

From 1,8/3 Kv up to 18/30 Kv



Construction:

Conductor:	flexible tinned copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
Inner semi-conductive layer:	semi-conducting compound
Insulation:	rubber EPR compound type 3GI3
Outer semi-conductive layer:	semi-conducting compound
Earth conductor:	flexible tinned copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
Earth semi-conductive layer:	semi-conducting compound
Cores color:	Power: natural color with black semi-conducting compound Earth: black semi-conducting compound
Stranding:	phase units laid up with earth-conductors in interstices
Inner sheath:	rubber EPR type GM1b
Outer sheath:	red (similar to RAL 3000), special PCP type 5GM3

Technical data:

Nominal voltage:	U/oU 1,8/3 kV, U/oU 3,6/6 kV, U/oU 6/10 kV, U/oU 8,7/15 kV, U/oU 12/20 kV, U/oU 14/25 kV, U/oU 18/30 kV
Max. operating voltage A.C.:	U/oU 1,8/3 kV = 2,1/3,6 kV U/oU 3,6/6 kV = 4,7/7,2 kV U/oU 6/10 kV = 6,9/12 kV U/oU 8,7/15 kV = 10,4/18 kV U/oU 12/20 kV = 13,9/24 kV U/oU 14/25 kV = 17,3/30 kV U/oU 18/30 kV = 20,8/36 kV
Max. operating voltage D.C.:	U/oU 1,8/3 kV = 2,7/5,4 kV U/oU 3,6/6 kV = 5,4/10,8 kV U/oU 6/10 kV = 9/18 kV U/oU 8,7/15 kV = 13,5/27 kV U/oU 12/20 kV = 18/36 kV U/oU 14/25 kV = 22,5/45 kV U/oU 18/30 kV = 27/54 kV
Test voltage:	U/oU 1,8/3 kV = 6 kV U/oU 3,6/6 kV = 11 kV U/oU 6/10 kV = 17 kV U/oU 8,7/15 kV = 24 kV U/oU 12/20 kV = 29 kV U/oU 14/25 kV = 36 kV U/oU 18/30 kV = 43 kV
Temperature range:	
<i>Fixed laying:</i>	-40°C up to +80°C
<i>Flexible installation:</i>	-20°C up to +60°C
Max. temperature in water:	+ 40°C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius:	acc. to DIN VDE 0298, part 3
Tensile strenght:	up to 15 N/mm ²
Max torsion:	± 100°/mm

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0482 part 265-2-1
EN 50265-2-1
IEC 60332-1-2



Oil resistance acc. to:
DIN VDE 0473 part 811-2-1
IEC EN 60811-2-1



Water resistance acc. to:
HD 22.16

Features:

for use in water!

outdoor/indoor use
UV, ozone, and moisture resistant
high-mechanical stresses
use in waste water, salt water and brackish water
cold version -45°C possible
GOST-R and others approvals on request

for MINIMUM BENDING RADIUS
see pages from 5 to 8 of catalogue

RoHS approval



Applications:

power supply cable for use in water:
connection to dredgers, pumps, ect.

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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 strenght N	AWG no.®)
02080KR1037M63	3x25+3x16/3	36,9	873,6	2180	1125	4
02080KR1037M64	3x35+3x16/3	39,5	1161,6	2610	1575	2
02080KR1037M65	3x50+3x25/3	43,8	1680	3330	2250	1
02080KR1037M66	3x70+3x35/3	49,1	2352	4370	3150	2/0
02080KR1037M67	3x95+3x50/3	55,3	3216	5660	4275	3/0
02080KR1037M68	3x120+3x70/3	58,6	4128	6725	5400	4/0
02080KR1037M69	3x150+3x70/3	62,6	4992	7820	6750	250 MCM
02080KR1037M70	3x185+3x95/3	68,2	6240	9435	8325	350 MCM

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 strenght N	AWG no.®)
02080MR1037M63	3x25+3x16/3	41,8	873,6	2625	1125	4
02080MR1037M64	3x35+3x16/3	44,3	1161,6	3080	1575	2
02080MR1037M65	3x50+3x25/3	47,3	1680	3695	2250	1
02080MR1037M66	3x70+3x35/3	54,7	2352	4984	3150	2/0
02080MR1037M67	3x95+3x50/3	57,9	3216	5972	4275	3/0
02080MR1037M68	3x120+3x70/3	61,2	4128	7051	5400	4/0
02080MR1037M69	3x150+3x70/3	66,9	4992	8469	6750	250 MCM
02080MR1037M70	3x185+3x95/3	70,8	6240	9855	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 strenght N	AWG no.®)
02080QR1037M63	3x25+3x16/3	43,5	873,6	2780	1125	4
02080QR1037M64	3x35+3x16/3	46	1161,6	3225	1575	2
02080QR1037M65	3x50+3x25/3	48,9	1680	3842	2250	1
02080QR1037M66	3x70+3x35/3	56	2352	5166	3150	2/0
02080QR1037M67	3x95+3x50/3	59,6	3216	6199	4275	3/0
02080QR1037M68	3x120+3x70/3	62,9	4128	7280	5400	4/0
02080QR1037M69	3x150+3x70/3	68,8	4992	8675	6750	250 MCM
02080QR1037M70	3x185+3x95/3	72,5	6240	10100	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 strenght N	AWG no.®)
02080SR1037M63	3x25+3x16/3	48,1	873,6	3230	1125	4
02080SR1037M64	3x35+3x16/3	50,7	1161,6	3715	1575	2
02080SR1037M65	3x50+3x25/3	55,5	1680	4630	2250	1
02080SR1037M66	3x70+3x35/3	60,7	2352	5793	3150	2/0
02080SR1037M67	3x95+3x50/3	66,1	3216	7111	4275	3/0
02080SR1037M68	3x120+3x70/3	69,4	4128	8262	5400	4/0
02080SR1037M69	3x150+3x70/3	73,3	4992	9418	6750	250 MCM
02080SR1037M70	3x185+3x95/3	78,9	6240	11175	8325	350 MCM

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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 strenght N	AWG no.*)
02080UR1037M63	3x25+3x16/3	54,3	873,6	3970	1125	4
02080UR1037M64	3x35+3x16/3	56,7	1161,6	4470	1575	2
02080UR1037M65	3x50+3x25/3	59,6	1680	5185	2250	1
02080UR1037M66	3x70+3x35/3	66,8	2352	6645	3150	2/0
02080UR1037M67	3x95+3x50/3	70,4	3216	7750	4275	3/0
02080UR1037M68	3x120+3x70/3	73,6	4128	8920	5400	4/0
02080UR1037M69	3x150+3x70/3	79,2	4992	10510	6750	250 MCM
02080UR1037M70	3x185+3x95/3	82,9	6240	11975	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 strenght N	AWG no.*)
02080WR1037M63	3x25+3x16/3	59,5	873,6	4680	1125	4
02080WR1037M64	3x35+3x16/3	62,4	1161,6	5235	1575	2
02080WR1037M65	3x50+3x25/3	67	1680	6215	2250	1
02080WR1037M66	3x70+3x35/3	72,3	2352	7515	3150	2/0
02080WR1037M67	3x95+3x50/3	77,7	3216	8990	4275	3/0
02080WR1037M68	3x120+3x70/3	80,8	4128	10215	5400	4/0
02080WR1037M69	3x150+3x70/3	84,8	4992	11505	6750	250 MCM
02080WR1037M70	3x185+3x95/3	90,5	6240	13427	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 strenght N	AWG no.*)
02080XR1037M63	3x25+3x16/3	66,4	873,6	5638	1125	4
02080XR1037M64	3x35+3x16/3	70,1	1161,6	6241	1575	2
02080XR1037M65	3x50+3x25/3	72,1	1680	7045	2250	1
02080XR1037M66	3x70+3x35/3	80	2352	8722	3150	2/0
02080XR1037M67	3x95+3x50/3	82,8	3216	9917	4275	3/0
02080XR1037M68	3x120+3x70/3	85,9	4128	11189	5400	4/0
02080XR1037M69	3x150+3x70/3	91,7	4992	12902	6750	250 MCM
02080XR1037M70	3x185+3x95/3	95,4	6240	14470	8325	350 MCM

Other dimensions and colors available on request.