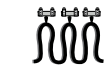


CABLE REELS

FLEXIDRUM® MEDIUM RS (N)TSCGEWÖU

From 3,6/6 Kv up to 14/25 Kv, with antitwisting protection

ELETTROTEK KABEL® FLEXIDRUM® MEDIUM RS (N)TSCGEWÖU



Construction:

Conductor:	flexible red 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 red 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 PCP compound
Supporting screen:	anti-twisting protection of synthetic yarns
Outer sheath:	red (similar to RAL 3000), special PCP compound

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

Technical data:

Nominal voltage:	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
Max. operating voltage.:	U/oU 3,6/6 kV = 5,4 kV U/oU 6/10 kV = 12 kV U/oU 8,7/15 kV = 18 kV U/oU 12/20 kV = 24 kV U/oU 14/25 kV = 30 kV
Test voltage:	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
Temperature range:	
<i>Fixed laying:</i>	-40°C up to +80°C
<i>Flexible installation:</i>	-30°C up to +80°C
Max. temperature on conductor:	+ 90°C
Max. temperature in short circuit:	+ 250 °C
Min. bending radius:	
<i>Fixed laying:</i>	6 x D
<i>On drums:</i>	12 x D
<i>On deflection pulleys:</i>	15 x D
<i>Free movement:</i>	12 x D
<i>Min. distance for change of direction:</i>	20 x D
Current carrying capacity:	acc. to DIN VDE 0298-4
Tensile strength:	20 N/mm ²
Max speed (main application):	180 m/min
Max. torsion:	+/- 25°/m

Features:

mining excavator!
outdoor/indoor use
UV, ozone, and moisture resistant
double layer with-antitwisting reinforcement
small outer diameter and light weight
possible version without antitwisting protection
possible version with tinned Cu-conductors
cold version -45°C possible
GOST-R WUG and others approvals on request
for SPEED and MINIMUM BENDING RADIUS see pages from 2 to 8 of catalogue
RoHS approval



Applications:

power supply cable for use in water:
connection to dredgers, pumps, ect.
suitable to operate with forced guidance systems with deflection on different levels and with reel axis in direction of travel.

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Suitable for reeling application



Suitable for festoon application

U_o/U (Um) 3,6/6 (7,2) 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.*)
02091MR1037M63	3x25+3x25/3	41,2	960	2535	1500	4
02091MR1037M64	3x35+3x25/3	43,7	1248	3025	2100	2
02091MR1037M65	3x50+3x25/3	46,6	1680	3560	3000	1
02091MR1037M66	3x70+3x35/3	50,7	2352	4480	4200	2/0
02091MR1037M67	3x95+3x50/3	54,7	3216	5478	5700	3/0
02091MR1037M68	3x120+3x70/3	58,9	4128	6875	7200	4/0
02091MR1037M69	3x150+3x70/3	63,4	4992	7920	9000	250 MCM
02091MR1037M70	3x185+3x95/3	66,5	6240	9335	11100	350 MCM
02091MR1037M71	3x240+3x120/3	74,8	8064	12140	14400	450 MCM

U_o/U (Um) 6/10 (12) 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.*)
02091QR1037M63	3x25+3x25/3	42,8	960	2667	1500	4
02091QR1037M64	3x35+3x25/3	45,6	1248	3215	2100	2
02091QR1037M65	3x50+3x25/3	51,4	1680	3733	3000	1
02091QR1037M66	3x70+3x35/3	52,5	2352	4682	4200	2/0
02091QR1037M67	3x95+3x50/3	56,3	3216	5701	5700	3/0
02091QR1037M68	3x120+3x70/3	60,3	4128	7105	7200	4/0
02091QR1037M69	3x150+3x70/3	65,1	4992	8128	9000	250 MCM
02091QR1037M70	3x185+3x95/3	68,1	6240	9578	11100	350 MCM
02091QR1037M71	3x240+3x120/3	75,9	8064	12365	14400	450 MCM

U_o/U (Um) 8,7/15 (18) 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.*)
02091SR1037M63	3x25+3x25/3	46,2	960	2987	1500	4
02091SR1037M64	3x35+3x25/3	48,9	1248	3530	2100	2
02091SR1037M65	3x50+3x25/3	51,7	1680	4121	3000	1
02091SR1037M66	3x70+3x35/3	55,8	2352	5080	4200	2/0
02091SR1037M67	3x95+3x50/3	59,7	3216	6146	5700	3/0
02091SR1037M68	3x120+3x70/3	64,7	4128	7590	7200	4/0
02091SR1037M69	3x150+3x70/3	68,5	4992	8605	9000	250 MCM
02091SR1037M70	3x185+3x95/3	72,9	6240	10305	11100	350 MCM
02091SR1037M71	3x240+3x120/3	78,6	8064	12730	14400	450 MCM

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Suitable for reeling application



Suitable for festoon application

U_o/U (Um) 12/20 (24) 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.*)
02091UR1037M63	3x25+3x25/3	50,7	960	3465	1500	4
02091UR1037M64	3x35+3x25/3	53,7	1248	4055	2100	2
02091UR1037M65	3x50+3x25/3	56,6	1680	4670	3000	1
02091UR1037M66	3x70+3x35/3	60,6	2352	5685	4200	2/0
02091UR1037M67	3x95+3x50/3	64,9	3216	6804	5700	3/0
02091UR1037M68	3x120+3x70/3	69,2	4128	8268	7200	4/0
02091UR1037M69	3x150+3x70/3	74,5	4992	9573	9000	250 MCM
02091UR1037M70	3x185+3x95/3	78,1	6240	11060	11100	350 MCM
02091UR1037M71	3x240+3x120/3	-	8064	13215	14400	450 MCM

U_o/U (Um) 14/25 (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.*)
02091WR1037M63	3x25+3x25/3	51,6	960	3375	1500	4
02091WR1037M64	3x35+3x25/3	55,7	1248	4038	2100	2
02091WR1037M65	3x50+3x25/3	59,4	1680	4810	3000	1
02091WR1037M66	3x70+3x35/3	63	2352	5838	4200	2/0
02091WR1037M67	3x95+3x50/3	68,6	3216	7290	5700	3/0
02091WR1037M68	3x120+3x70/3	72,3	4128	8510	7200	4/0
02091WR1037M69	3x150+3x70/3	77,7	4992	10075	9000	250 MCM
02091WR1037M70	3x185+3x95/3	81,5	6240	11620	11100	350 MCM
02091WR1037M71	3x240+3x120/3	89,4	8064	14675	14400	450 MCM

Other dimensions and colors available on request.

Nominal cross section mm ²	Max resistance		Reactance at 50 Hz for nominal voltage			
	D.C. at 20°C Ohm/km	A.C. at 90°C Ohm/km	3,6/6 Ohm/km	6/10 Ohm/km	8,7/15 Ohm/km	12/20 Ohm/km
25	0,780	0,995	0,107	0,111	0,117	0,125
35	0,554	0,707	0,075	0,104	0,110	0,117
50	0,386	0,493	0,075	0,100	0,105	0,112
70	0,272	0,348	0,073	0,094	0,099	0,106
95	0,206	0,264	0,072	0,091	0,095	0,101
120	0,161	0,207	0,071	0,087	0,091	0,097
150	0,129	0,167	0,071	0,085	0,088	0,093
185	0,106	0,139	0,072	0,083	0,087	0,091
240	0,0801	0,107	0,072	0,082	0,084	0,089

Correction factors for ambient temperature other than 30°C

°C	20	25	30	40	45	50	55
K	1,1	1,05	0,95	0,89	0,84	0,77	0,71