

CABLE REELS

FLEXIDRUM® MEDIUM RS (N)TSCGEWÖU

From 3,6/6 Kv up to 12/20 Kv, on request 14/25 kV

ELETTROTEK KABEL® FLEXIDRUM® RS (N)TSCGEWÖU



Suitable for reeling application



Suitable for festoon application

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
Outer sheath:	red (similar to RAL 3000), special PCP compound

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 On request 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):	60 m/min

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:

mining excavator!
outdoor/indoor use
UV, ozone, and moisture resistant
double layer
small outer diameter and light weight
possible version with 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 for application where it is deflected in one level only, because it's without anti-twisting protection.

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Uo/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.®)
02090MR1037M63	3x25+3x25/3	40,3	960	2410	1500	4
02090MR1037M64	3x35+3x25/3	43	1248	2935	2100	2
02090MR1037M65	3x50+3x25/3	45,8	1680	3455	3000	1
02090MR1037M66	3x70+3x35/3	49,8	2352	4360	4200	2/0
02090MR1037M67	3x95+3x50/3	53,7	3216	5365	5700	3/0
02090MR1037M68	3x120+3x70/3	58	4128	6746	7200	4/0
02090MR1037M69	3x150+3x70/3	62,5	4992	7743	9000	250 MCM
02090MR1037M70	3x185+3x95/3	65,6	6240	9169	11100	350 MCM
02090MR1037M71	3x240+3x120/3	74	8064	11980	14400	450 MCM

Uo/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.®)
02090QR1037M63	3x25+3x25/3	42	960	2560	1500	4
02090QR1037M64	3x35+3x25/3	44,8	1248	3111	2100	2
02090QR1037M65	3x50+3x25/3	47,6	1680	3648	3000	1
02090QR1037M66	3x70+3x35/3	51,7	2352	4566	4200	2/0
02090QR1037M67	3x95+3x50/3	55,5	3216	5558	5700	3/0
02090QR1037M68	3x120+3x70/3	59,8	4128	6950	7200	4/0
02090QR1037M69	3x150+3x70/3	64,2	4992	7972	9000	250 MCM
02090QR1037M70	3x185+3x95/3	67,4	6240	9425	11100	350 MCM
02090QR1037M71	3x240+3x120/3	75,2	8064	12175	14400	450 MCM

Uo/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.®)
02090SR1037M63	3x25+3x25/3	45,5	960	2880	1500	4
02090SR1037M64	3x35+3x25/3	48,1	1248	3326	2100	2
02090SR1037M65	3x50+3x25/3	50,9	1680	3400	3000	1
02090SR1037M66	3x70+3x35/3	55,1	2352	4935	4200	2/0
02090SR1037M67	3x95+3x50/3	60,2	3216	5970	5700	3/0
02090SR1037M68	3x120+3x70/3	63,7	4128	7430	7200	4/0
02090SR1037M69	3x150+3x70/3	67,8	4992	8444	9000	250 MCM
02090SR1037M70	3x185+3x95/3	72,2	6240	10165	11100	350 MCM
02090SR1037M71	3x240+3x120/3	77,8	8064	12595	14400	450 MCM

Uo/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 strenght N	AWG no.®)
02090UR1037M63	3x25+3x25/3	50,2	960	3360	1500	4
02090UR1037M64	3x35+3x25/3	53	1248	3946	2100	2
02090UR1037M65	3x50+3x25/3	55,8	1680	4533	3000	1
02090UR1037M66	3x70+3x35/3	59,8	2352	5515	4200	2/0
02090UR1037M67	3x95+3x50/3	64,1	3216	6639	5700	3/0
02090UR1037M68	3x120+3x70/3	68,4	4128	8098	7200	4/0
02090UR1037M69	3x150+3x70/3	73,9	4992	9375	9000	250 MCM
02090UR1037M70	3x185+3x95/3	76,9	6240	10865	11100	350 MCM
02090UR1037M71	3x240+3x120/3	-	8064	13550	14400	450 MCM

Other dimensions and colors available on request.

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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