

CABLE REELS

FLEXIDRUM® MEDIUM PLUS (N)TSCGEWÖU

From 3,6/6 Kv up to 12/20 Kv with antitwisting protection



Suitable for reeling application



Suitable for deflection 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 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
Central unit:	semi-conducting rubber compound
Stranding:	phase units laid up with earth-conductors in interstices
Inner sheath:	rubber EPR type GM1b
Supporting screen:	anti-twisting protection of synthetic yarns
Outer sheath:	red (similar to RAL 3000) rubber PCP type 5GM5

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

Technical data:

Nominal voltage:	U/oU 3,6/6 kV, U/oU 6/10 kV U/oU 8,7/15, U/oU 12/20 kV
Max. operating voltage:	U/oU 3,6/6 kV = 7,2 kV U/oU 6/10 kV = 12 kV U/oU 8,7/15 = 18 kV U/oU 12/20 kV = 24 kV
Test voltage:	U/oU 3,6/6 kV = 11 kV U/oU 6/10 kV = 17 kV U/oU 8,7/15 = 24 kV U/oU 12/20 kV = 29 kV
Temperature range:	
<i>Fixed laying:</i>	-50°C up to +80°C
<i>Flexible installation:</i>	-35°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 pulley:</i>	15 x D
Min. distance for change of direction:	20 x D
Max speed (main application):	300 m/min
Max torsion:	± 25°/m

Features:

max. speed up to 300 m/min!

new version reduced weight and diameter!

acc. to DIN VDE 0250 part 813, and 0298-3/4

UL and MSHA approval on request

*after verify of the application by Elettrotek Kabel

for SPEED and MINIMUM BENDING RADIUS
see pages from 2 to 8 of catalogue

RoHS approval



Applications:

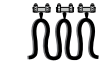
power supply to mobile units with high risk of mechanical damage. It is designed to work with forced guidance systems with deflection on different floors and equipment with reel axis in direction of travel

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ELETTROTEK KABEL® FLEXIDRUM® MEDIUM PLUS (N)TSCGEWÖU



3,6/6 kV (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.®)
02045MR1037M63	3x25+3x25/3	42	960	2540	3000	4
02045MR1037M64	3x35+3x25/3	43,5	1248	2825	3000	2
02045MR1037M65	3x50+3x25/3	47,5	1680	3560	3000	1
02045MR1037M66	3x70+3x35/3	51,5	2352	4370	4200	2/0
02045MR1037M67	3x95+3x50/3	56	3216	5470	5700	3/0
02045MR1037M68	3x120+3x70/3	59,5	4156	6500	7200	4/0
02045MR1037M69	3x150+3x70/3	65,5	4992	7830	9000	250 MCM
02045MR1037M70	3x185+3x95/3	69,5	6240	9370	11100	350 MCM
02045MR1037M71	3x240+3x95/3	74,5	7824	11360	14400	450 MCM

6/10 kV (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.®)
02045QR1037M63	3x25+3x25/3	42	960	2540	3000	4
02045QR1037M64	3x35+3x25/3	43,5	1248	2825	3000	2
02045QR1037M65	3x50+3x25/3	47,5	1680	3560	3000	1
02045QR1037M66	3x70+3x35/3	51,5	2352	4370	4200	2/0
02045QR1037M67	3x95+3x50/3	56	3216	5470	5700	3/0
02045QR1037M68	3x120+3x70/3	59,5	4156	6500	7200	4/0
02045QR1037M69	3x150+3x70/3	65,5	4992	7830	9000	250 MCM
02045QR1037M70	3x185+3x95/3	69,5	6240	9370	11100	350 MCM
02045QR1037M71	3x240+3x95/3	74,5	7824	11360	14400	450 MCM

8,7/15 kV (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.®)
02045SR1037M63	3x25+3x25/3	42	960	2540	3000	4
02045SR1037M64	3x35+3x25/3	43,5	1248	2825	3000	2
02045SR1037M65	3x50+3x25/3	47,5	1680	3560	3000	1
02045SR1037M66	3x70+3x35/3	51,5	2352	4370	4200	2/0
02045SR1037M67	3x95+3x50/3	56	3216	5470	5700	3/0
02045SR1037M68	3x120+3x70/3	59,5	4156	6500	7200	4/0
02045SR1037M69	3x150+3x70/3	65,5	4992	7830	9000	250 MCM
02045SR1037M70	3x185+3x95/3	69,5	6240	9370	11100	350 MCM
02045SR1037M71	3x240+3x95/3	74,5	7824	11360	14400	450 MCM

12/20 kV (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.®)
02045UR1037M63	3x25+3x25/3	47	960	2990	3000	4
02045UR1037M64	3x35+3x25/3	48,5	1248	3300	3000	2
02045UR1037M65	3x50+3x25/3	50,5	1680	3820	3000	1
02045UR1037M66	3x70+3x35/3	56,5	2352	4880	4200	2/0
02045UR1037M67	3x95+3x50/3	61	3216	5950	5700	3/0
02045UR1037M68	3x120+3x70/3	63,5	4156	7000	7200	4/0
02045UR1037M69	3x150+3x70/3	67,5	4992	8250	9000	250 MCM
02045UR1037M70	3x185+3x95/3	71,5	6240	9650	11100	350 MCM
02045UR1037M71	3x240+3x95/3	78,5	7824	12150	14400	450 MCM
02045UR1037M72	3x300+3x120/3	82	9792	14400	18000	550 MCM

Other dimensions and colors available on request.

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Suitable for reeling application



Suitable for festoon application

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	0,106	0,107	0,114	0,123
35	0,554	0,707	0,100	0,101	0,107	0,116
50	0,386	0,493	0,095	0,097	0,102	0,110
70	0,272	0,348	0,090	0,092	0,097	0,104
95	0,206	0,264	0,087	0,088	0,093	0,099
120	0,161	0,207	0,084	0,085	0,089	0,095
150	0,129	0,167	0,082	0,083	0,087	0,092
185	0,106	0,139	0,080	0,081	0,085	0,090
240	0,0801	0,107	0,079	0,079	0,083	0,087

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