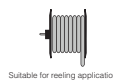


CABLE REELS

FLEXIDRUM® MEDIUM (N)TSCGECWÖU TUNNEL

From 3,6/6 Kv up to 12/20 Kv

ELETTROTEK KABEL® FLEXIDRUM® MEDIUM (N)TSCGECWÖU TUNNEL



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 type 3GI3
Outer semi-conductive layer:	semi-conducting compound
Earth conductor:	tinned copper/textile braid combined laying concentric around each power cores
Cores color:	Power: natural color with black semi-conducting compound Control: black semi-conducting compound
Stranding:	phase units laid up with control conductors in interstices
Inner sheath:	rubber EPR type GM1b, acc. to DIN VDE 0207 part 21
monitoring conductor:	red copper wires, laying concentric between inner and outer sheath (6 ÜL KON)
Outer sheath:	red (similar to RAL 3000) rubber PCP type 5GM5

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
Max. operating voltage A.C.:	U/oU 3,6/6 kV = 4,2/7,2 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
Max. operating voltage D.C.:	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
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
Temperature range:	
<i>Fixed laying:</i>	-40°C up to +80°C
<i>Flexible installation:</i>	-20°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
Current carrying capacity:	acc. to DIN VDE 0298, part 4
Tensile strength:	up to 15 N/mm ²
Max speed (main application):	60 m/min
Max torsion:	± 25°/m

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

Features:

new version! for use in TBM's

outdoor/indoor use

ozone, moisture, water resistant

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

RoHS approval



Applications:

appropriate for reeling power supply cables mines in TBM'S machines and underground mines for tunnel construction applications

CABLE REELS

FLEXIDRUM® MEDIUM (N)TSCGECWÖU TUNNEL

From 3,6/6 Kv up to 12/20 Kv



3,6/6 kV (7,2) kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02060MR1037M63	3x25+3x16/3E +3x2,5ST + 6ÜL KON	41,7	2775	1125	4
02060MR1037M64	3x35+3x25/3E +3x2,5ST + 6ÜL KON	45,4	3205	1575	2
02060MR1037M65	3x50+3x25/3E +3x2,5ST + 6ÜL KON	49,9	4040	2250	1
02060MR1037M66	3x70+3x35/3E +3x2,5ST + 6ÜL KON	53,1	5030	3150	2/0
02060MR1037M67	3x95+3x50/3E +3x2,5ST + 6ÜL KON	59,1	6278	4275	3/0
02060MR1037M68	3x120+3x70/3E +3x2,5ST + 6ÜL KON	62,9	7365	5400	4/0

6/10 kV (12) kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02060QR1037M63	3x25+3x16/3E +3x2,5ST + 6ÜL KON	44,2	2975	1125	4
02060QR1037M64	3x35+3x25/3E +3x2,5ST + 6ÜL KON	46,7	3420	1575	2
02060QR1037M65	3x50+3x25/3E +3x2,5ST + 6ÜL KON	51,2	4257	2250	1
02060QR1037M66	3x70+3x35/3E +3x2,5ST + 6ÜL KON	56,1	5268	3150	2/0
02060QR1037M67	3x95+3x50/3E +3x2,5ST + 6ÜL KON	61,4	6538	4275	3/0
02060QR1037M68	3x120+3x70/3E +3x2,5ST + 6ÜL KON	65,1	7637	5400	4/0

CABLE REELS

FLEXIDRUM® MEDIUM (N)TSCGECWÖU TUNNEL

From 3,6/6 Kv up to 12/20 Kv



8,7/15 kV (18) kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02060SR1037M64	3x35+3x25/3E +3x2,5ST + 6ÜL KON	49,5	4017	1575	2

12/20 kV (24) kV

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02060UR1037M63	3x25+3x16/3E +3x2,5ST + 6ÜL KON	50,5	3527	1125	4
02065UR1037M64	3x35+3x16/3E +3x2,5ST + 6ÜL KON	53,1	3960	-	4
02060UR1037M64	3x35+3x25/3E +3x2,5ST + 6ÜL KON	53,3	4140	1575	2
02060UR1037M65	3x50+3x25/3E +3x2,5ST + 6ÜL KON	58,4	5060	2250	1
02060UR1037M66	3x70+3x35/3E +3x2,5ST + 6ÜL KON	62	6059	3150	2/0
02060UR1037M67	3x95+3x50/3E +3x2,5ST + 6ÜL KON	68,1	7512	4275	3/0
02060UR1037M68	3x120+3x70/3E +3x2,5ST + 6ÜL KON	71,9	8815	5400	4/0

Other dimensions and colors available on request.