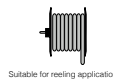


# CABLE REELS

## FLEXIDRUM® MEDIUM R 903

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



### Construction:

<b>Conductor:</b>	flexible red copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
<b>Inner semi-conductive layer:</b>	semi-conducting compound
<b>Insulation:</b>	rubber EPR compound type IEC 60502-2
<b>Outer semi-conductive layer:</b>	semi-conducting compound + red copper braid
<b>Earth conductor:</b>	flexible red copper conductor Cl. 5, acc. to IEC 60228, DIN VDE 0295
<b>Earth semi-conductive layer:</b>	semi-conducting compound
<b>Cores color:</b>	<b>Power:</b> natural color with black semi-conducting compound <b>Earth:</b> black semi-conducting compound
<b>Central unit:</b>	aramide yarns
<b>Inner sheath:</b>	halogen-free compound
<b>monitoring conductor:</b>	semi-conducting compound + red copper braid laying concentric between inner and outer sheath
<b>Outer sheath:</b>	red (similar to RAL 3000), special PUR compound

### Technical data:

<b>Nominal voltage:</b>	U/oU 3,6/6 kV, U/oU 6/10 kV U/oU 12/20 kV
<b>Max. operating voltage A.C.:</b>	U/oU 3,6/6 kV = 4,2/7,2 kV U/oU 6/10 kV = 6,9/12 kV U/oU 12/20 kV = 13,9/24 kV
<b>Max. operating voltage D.C.:</b>	U/oU 3,6/6 kV = 5,4/10 kV U/oU 6/10 kV = 9/18 kV U/oU 12/20 kV = 18/36 kV
<b>Test voltage (15 min.):</b>	U/oU 3,6/6 kV = 13 kV U/oU 6/10 kV = 21 kV U/oU 12/20 kV = 42 kV
<b>Temperature range:</b>	
<i>Fixed laying:</i>	-40°C up to +80°C
<i>Flexible installation:</i>	-20°C up to +80°C
<b>Max. temperature on conductor:</b>	+ 90°C
<b>Max. temperature in short circuit:</b>	+ 250°C
<b>Min. bending radius:</b>	
<i>Fixed laying:</i>	8 x d
<i>Flexible installation:</i>	
<i>6/10 kV:</i>	10 x D
<i>12/20 kV:</i>	12 x D
<b>Current carrying capacity:</b>	acc. to DIN VDE 0298, part 4
<b>Tensile strength:</b>	up to 20 N/mm <sup>2</sup>
<b>Max speed (main application):</b>	60 m/min
<b>Max torsion:</b>	± 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 R 903

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



Suitable for reeling application

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

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02130MR1037M63	3x25+3x16/3E +3x2,5 + 6ÜL KON	40	2130	1500	4
02130MR1037M64	3x35+3x25/3E +3x2,5 + 6ÜL KON	43,5	2460	2100	2
02130MR1037M65	3x50+3x25/3E +3x2,5 + 6ÜL KON	47,5	3310	3000	1
02130MR1037M66	3x70+3x35/3E +3x2,5 + 6ÜL KON	51	4270	4200	2/0
02130MR1037M67	3x95+3x50/3E +3x2,5 + 6ÜL KON	57	5520	5700	3/0
02130MR1037M68	3x120+3x70/3E +3x2,5 + 6ÜL KON	61	6480	7200	4/0

6/10 kV (12) kV

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02130QR1037M63	3x25+3x16/3E +3x2,5 + 6ÜL KON	42,5	2800	1500	4
02130QR1037M64	3x35+3x25/3E +3x2,5 + 6ÜL KON	46	3400	2100	2
02130QR1037M65	3x50+3x25/3E +3x2,5 + 6ÜL KON	50,5	4000	3000	1
02130QR1037M66	3x70+3x35/3E +3x2,5 + 6ÜL KON	54	5050	4200	2/0
02130QR1037M67	3x95+3x50/3E +3x2,5 + 6ÜL KON	60,5	6350	5700	3/0
02130QR1037M68	3x120+3x70/3E +3x2,5 + 6ÜL KON	64	7600	7200	4/0

12/20 kV (24) kV

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca.mm ± 10%	Cable weight approx. kg/km	Tensile strenght N	AWG no.*)
02130UR1037M64	3x35+3x25/3E +3x2,5 + 6ÜL KON	52	3950	2100	2
02130UR1037M65	3x50+3x25/3E +3x2,5 + 6ÜL KON	55	4550	3000	1
02130UR1037M66	3x70+3x35/3E +3x2,5 + 6ÜL KON	59,5	5700	4200	2/0
02130UR1037M67	3x95+3x50/3E +3x2,5 + 6ÜL KON	66	7050	5700	3/0
02130UR1037M68	3x120+3x70/3E +3x2,5 + 6ÜL KON	69,5	8250	7200	4/0

Other dimensions and colors available on request.