

CABLE REELS

FLEXIDRUM® R 501

ELETTROTEK KABEL® FLEXIDRUM® R 501



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Insulation:	Power: rubber EPR special compound Earth: XLPE special compound
Cores color:	acc. to DIN VDE 0293-308, HD 308 S2 3 conductors + 3 earth conductors: grey, brown, black and green/yellow divided in interstices
Inner sheath:	special PVC compound
Outer sheath:	yellow (similar to RAL 1021), PUR compound

Technical data:

Nominal voltage:	U ₀ /U 0,6/1 kV Max. 1,2 kV
Test voltage:	3,5 kV
Temperature range:	
<i>Fixed laying:</i>	-30°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>For repeated winding action(felxible):</i>	10 x D
<i>Guided on deflection pulleys (felxible):</i>	10 x D
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

Features:

tunneling machines!

weather resistance: very good

chemical resistance: very good

possible version with antitwisting protection identified with "1" on the 5th number of the Part. no

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

RoHS and CE approval



Applications:

power supply to mobile equipment with high risk of mechanical damage in mining and tunneling.

FLEXIDRUM® R 501 cable is suitable for application where it is deflected in one plane only.

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

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.®)
01040GY2037M63	3x25+3G6	25,5	892,8	1260	1500	4
01040GY2037M64	3x35+3G6	27,5	1180,8	1550	2100	2
01040GY2037M65	3x50+3G10	31	1728	2220	3000	1
01040GY2037M66	3x70+3G16	35,8	2476,8	3110	4200	2/0
01040GY2037M67	3x95+3G16	40,3	3196,8	3770	5700	3/0
01040GY2037M68	3x120+3G25	45,3	4176	4980	7200	4/0
01040GY2037M69	3x150+3G25	50,3	5040	6010	9000	250 MCM
01040GY2037M70	3x185+3G35	54,5	6336	7300	11100	350 MCM
01040GY2037M71	3x240+3G50	61	8352	9450	14400	450 MCM
01040GY2037M72	3x300+3G50	70,5	10080	12315	21000	550 MCM
01040GY203B901	3x25+2G16/2+(2x1,5)	28,6	902	1660	-	4
01040GY203B902	3x35+2G16/2+(2x1,5)	29,8	1190	1950	-	2
01040GY203B903	3x50+2G25/2+(2x1,5)	33,5	1708	2430	-	1
01040GY203B904	3x70+2G35/2+(2x1,5)	36,1	2380	3510	-	2/0
01040GY203B905	3x95+2G50/2+(2x1,5)	41,2	3245	4230	-	3/0
01040GY203B906	3x120+2G70/2+(2x1,5)	46,4	4157	5465	-	4/0
01040GY203B900	3x150+2G70/2+(2x1,5)	50,7	5020	6420	-	250 MCM
01040GY203B907	3x185+2G95/2+(2x1,5)	55,9	6268	7600	-	350 MCM
01040GY203B908	3x240+2G150/2+(2x1,5)	63,5	8380	10040	-	450 MCM
01040GY203B909	3x35+2G16/2+(4x1)	30,5	1200	2000	-	2
01040GY203B910	3x35+2G16/2+(4x1,5)	30,5	1220	2050	-	2
01040GY2039911	3x50+3G10+(2x1,5)	35,4	1708	2610	-	1

Other dimensions and colors available on request.