

# TORSION CABLES

## GAALFLEX® ROBOT 113

PVC torsion cable  $\pm 270^\circ/0,5$  mt, DIN VDE 300/500 V, UL 300 V, UL/CSA 600 V



ELETTROTEK KABEL® GAALFLEX® ROBOT 113



### Construction:

<b>Conductor:</b>	<b>from 0,14 mm<sup>2</sup> up to 0,34 mm<sup>2</sup>:</b> flexible red copper conductor Cl. 6, acc. to IEC 60228, DIN VDE 0295 <b>from 0,50 mm<sup>2</sup>:</b> flexible red copper conductor Cl. 6, acc. to IEC 60228, DIN VDE 0295
<b>Insulation:</b>	PVC type Tl2 acc. to DIN VDE 0281 part. 1 + HD 21.1
<b>Colour cores:</b>	<b>up to 0,34 mm<sup>2</sup>:</b> acc.to US 2 <b>from 0,50 mm<sup>2</sup>:</b> black cores with consecutive numbers acc. to EN 50334 green-yellow from 3 cores
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	netting tape over each layer and overall non-woven tape
<b>Outer sheath:</b>	black (RAL 9005), PVC type TM5, acc. to DIN VDE 0281 part. 1 HD 21.1

### Resistance:



**Fire performance 0,14 mm<sup>2</sup> - 0,34mm<sup>2</sup> acc. to:**  
UL VW1 IEC 60332-1-2 and EN 60332-1-2  
**Fire performance From 0,50 acc. to:**  
UL VW1 + CSA FT1 + FT2 and 60332-1-2



**Oil resistance:**  
very good - TM5 acc. to DIN VDE 0281 part. 1 + HD  
21.1 oil rating 60°C acc.to UL 758,  
Fuel-Oil acc.to CSA C 22.2 No.210.2-M90

### Technical data:

<b>Voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	<b>UL:</b> 300 V
<b>Voltage</b> from 0,50 mm <sup>2</sup> :	<b>UL:</b> 600 V
<b>Peak operating voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	max 350 V
<b>Nominal voltage:</b> from 0,50 mm <sup>2</sup> :	<b>DIN VDE:</b> 300/500V
<b>Voltage</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	1,5 kV acc. to DIN VDE 0472 part. 509 core/screen 1,2 kV
<b>Voltage</b> from 0,50 mm <sup>2</sup> :	2 kV acc. to DIN VDE 0281 part.2 + HD 21.2
<b>Temperature range</b> 0,14 mm <sup>2</sup> - 0,34 mm <sup>2</sup> :	<b>UL</b> <b>DIN VDE</b>
<i>Fixed laying:</i>	up to +80°C -40 up to +70°C
<i>Flexible application</i>	up to +80°C +5 up to +70°C
<b>Temperature range</b> from 0,50 mm <sup>2</sup> :	<b>UL</b> <b>DIN VDE</b>
<i>Fixed laying:</i>	up to +90°C -40 up to +70°C
<i>Flexible application</i>	up to +90°C +5 up to +70°C
<b>Min. bending radius:</b>	continuously flexible 12 x d from 34 cores 20 x d

### Features:

Rugged and reliable

AWM Style 21216 90°C 600 V  
CSA AWM I/II A/B 90°C F 600 V FT1 FT2 CE

RoHS and CE approval

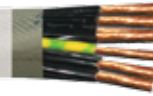


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### UL/CE

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
38010C76030A26	3 x 0,14	5,2	4	32	26
38010C76040A26	4 x 0,14	5,6	5,4	36	26
38010C76030A24	3 x 0,25	5,6	7,2	38	24
38010C76040A24	4 x 0,25	5,9	9,6	43	24
38010C76070A24	7 x 0,25	7,3	16,8	66	24
38010C76250A24	25 x 0,25	11,4	60	172	24
38010C76020A22	2 x 0,34	5,5	6,5	39	22

### UL/CSA/CE

Part no.	No. of cores x cross section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
38010F70251A20	25 G 0,5	14,8	132	318	20
38010F70041A19	4 G 0,75	7,5	28,8	79	19
38010F70071A19	7 G 0,75	10,2	67,2	157	19
38010F70141A19	14 G 0,75	12,7	100,8	225	19
38010F70021A18	2 G 1	6,8	19,2	65	18
38010F70031A18	3 G 1	7,2	28,8	77	18
38010F70041A18	4 G 1	7,9	38,4	93	18
38010F70121A18	12 G 1	12,6	115,2	234	18
38010F70181A18	18 G 1	14,8	172,8	340	18
38010F70251A18	25 G 1	17,2	240	473	18
38010F70341A18	34 G 1	20,2	326,4	616	18
38010F70411A18	41 G 1	21,6	393,6	735	18
38010F70181A16	18 G 1,5	16,5	259,2	456	16
38010F70251A16	25 G 1,5	19,3	360	638	16
38010F70031A14	3 G 2,5	10,2	72	160	14
38010F70041A14	4 G 2,5	11,1	96	194	14
38010F70031A12	3 G 4	12,3	115,2	234	12
38010F70031A08	3 G 10	18,5	288	548	8
38010F70031A06	3 G 16	21,1	460,8	794	6
38010F70031A04	3 G 25	23,9	720	1128	4
38010F70031A02	3 G 35	28,9	1008	1555	2

Other dimension and colours available on request.