

# SERVO CABLES

## GAALFLEX® SERVO T 841 C

paired TPE/PUR motor connection cable with overall copper screen



### Construction:

<b>Conductor:</b>	flexible red copper conductor Cl. 6, acc. to IEC 60228, DIN VDE 0295 > 0,5 mm <sup>2</sup> acc. to DIN VDE 0812
<b>Insulation:</b>	special TPE compound
<b>Colour cores:</b>	black cores with consecutive numbers acc. to EN 50334 green-yellow from 3 cores <b>0,34 mm<sup>2</sup></b> : acc. to DIN 47100  <b>From Part n. 37090HG004B911:</b> <b>supply cores:</b> black cores with consecutive numbers U1, U2, W3 and green-yellow from 3 cores <b>control cores:</b> black cores with consecutive numbers BR1 and BR2
<b>Stranding:</b>	<b>control cores: (from 0,34 mm<sup>2</sup> up to 2,5 mm<sup>2</sup>):</b> cores twisted in pairs
<b>Screen:</b>	pairs screened individually with aluminium tape + tinned copper braid
<b>Wrapping:</b>	pairs with PETP foil
<b>Stranding:</b>	supply cores and control cores together in layers
<b>Wrapping:</b>	non-woven tape
<b>Screen:</b>	tinned copper braid
<b>Wrapping:</b>	non-woven tape
<b>Outer sheath:</b>	orange (RAL 2003), PUR type TPU, acc. to DIN VDE 0282 part. 10 + HD 22.10

### Resistance:



**Self-extinguishing and flame retardant acc.to:**  
IEC 60332-1-2  
EN 60332-1-2  
UL CSA FT-1, FT-2



**Oil resistance:**  
very good - TPU acc. to DIN VDE 0282 part.10 +  
HD 22.10



**Halogen free acc.to:**  
IEC 60754-1  
(equivalent DIN VDE 0472 part 815)

### Technical data:

<b>Nominal voltage:</b>	<b>DIN VDE:</b> supply cores Uo/U 0,6/1 kV <b>UL/CSA:</b> supply cores 1000 V <b>DIN VDE:</b> control cores 350 V <b>UL/CSA:</b> control cores 300 V
<b>Test voltage:</b>	supply cores: 4kV core screen: 1,5 kV
<b>Temperature range</b>	<b>DIN VDE</b> <b>UL/CSA:</b> up to +80°C
<i>Fixed laying:</i>	- 50°C up to + 90°C
<i>Flexible installation:</i>	- 40°C up to + 90°C
<b>Radiation resistance:</b>	5 x 10 <sup>7</sup> cj/kg
<b>Min. bending radius</b>	
<i>Fixed laying:</i>	5 x d
<i>Flexible installation:</i>	10 x d
<i>Continuously flexible:</i>	12 x d
<b>Max speed (main application):</b>	250 m/min

### Features:

UL AWM STYLE 20235 80°C 1000 V  
CSA AWM I/II A/B 80°C 300 V FT1 FT2 CE  
very good EMC characteristics  
long life service  
adhesion-free installation  
high flexibility  
good against acids, alkalines, solvents, hydraulic liquids etc.  
very good weather resistance  
halogen-free  
labs uncritical  
flexible at low temperatures  
mat surface outer sheath  
DESINA® colours  
for SPEEDS and MINIMUM BENDING RADIUS  
see pages from 2 to 8 of catalogue  
RoHS and CE approval



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### DESINA® INDRAMAT

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. *)
37090HG004B900	4 G 0,75 + 2 x (2 x 0,34)	11,6	117,1	168	19/22
37090HG004B901	4 G 1 + 2 x + (2 x 0,75)	11,8	150,1	201	18/19
37090HG004B902	4 G 1,5 + 2 x (2 x 0,75)	12,3	170,1	228	16/19
37090HG004B903	4 G 2,5 + 2 x (2 x 1)	14,5	231,8	320	14/18
37090HG004B904	4 G 4 + (2 x 1) + 2 x 1,5	17,4	343	458	12//18/16
37090HG004B905	4 G 6 + (2 x 1) + 2 x 1,5	18,9	432,8	557	10/18/16
37090HG004B906	4 G 10 + (2 x 1) + 2 x 1,5	20,4	603,7	736	8/18/16
37090HG004B907	4 G 16 + 2 x (2 x 1,5)	26	875,7	1111	6/16
37090HG004B908	4 G 25 + 2 x (2 x 1,5)	29,4	1251,1	1517	4/16
37090HG004B909	4 G 35 + 2 x (2 x 1,5)	31,3	1644,6	1882	2/16
37090HG004B910	4 G 50 + 2 x (2 x 2,5)	38,2	2317,6	2659	1/16

### DESINA® SIEMENS

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. *)
37090HG004B911	4 G 1,5 + (2 x 1)	11,9	148,2	-	16/18
37090HG004B912	4G 1,5 + (2 x 1,5)	12,5	159,2	222	16/16
37090HG004B913	4 G 2,5 + (2 x 1,5)	13,3	204,8	285	14/16
37090HG004B914	4 G 4 + (2 x 1,5)	15,2	268,8	369	12/16
37090HG004B915	4 G 6 + (2 x 1,5)	16,6	377,5	485	10/16
37090HG004B916	4 G 10 + (2 x 1,5)	19,5	555,8	677	8/16
37090HG004B917	4 G 16 + (2 x 1,5)	23,7	814,8	1019	6/16
37090HG004B918	4 G 25 + (2 x 1,5)	27,2	1175,6	1418	4/16
37090HG004B919	4 G 35 + (2x1,5)	30,1	1586,4	1810	2/16
37090HG004B920	4 G 50 + (2 x 1,5)	34,4	2192,4	2463	1/16

Other dimension and colours available on request.