

SERVO CABLES



SPECIAL GAALFLEX® SERVO T 830

PVC motor connection cable

SPECIAL GAALFLEX® SERVO T 830 C

PVC motor connection cable with overall copper screen



Construction:

Conductor:	flexible red copper conductor Cl. 6 acc to IEC 60228, DIN VDE 0295
Insulation:	special PP compound
Colour cores:	black cores with consecutive numbers acc. to EN 50334 +green-yellow
Stranding:	in layers
Wrapping:	non-woven tape
Screen (SPECIAL T 830 C):	tinned copper braid
Wrapping (SPECIAL T 830 C):	non-woven tape
Outer sheath:	orange (RAL 2003), special PVC compound 90°C

Resistance:



Self-extinguishing and flame retardant acc. to:
DIN VDE 0472 part 804 test method B,
IEC 60332-1, IEC 60332-3-24, CSA FT1



Oil resistance acc. to:
EN 50363-4-1

Technical data:

Nominal voltage:	Uo/U 0,6/1 kV UL/CSA: 1000 V
Test voltage:	supply cores:4kV core screen: 1,5 kV
Temperature range	
<i>Fixed laying:</i>	- 40°C up to + 80°C
<i>Flexible installation:</i>	- 10°C up to + 80°C
Min. bending radius	
<i>Fixed laying:</i>	4 x d
<i>Flexible installation:</i>	7,5 x d
Max speed (main application):	
<i>unsupported:</i>	8 m/sec
<i>gliding:</i>	4 m/sec
Max acceleration (main application):	30 m/sec ²
Bending cycles (main application):	up to 6 million
Travel distances (main application):	up to 10 mt

Features:

UL AWM STYLE 2570 80°C 1000 V, CSA AWM I/II A/B

suitable for track cables
speed 8 m/sec (unsupported), 4 m/sec (gliding), acc. 30 m/sec²

low capacitance

high oil resistance

high flexibility

DESINA® colours

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

RoHS and CE approval



DESINA® T 830

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	AWG no.)*
37010HG0041A19	4 G 0,75	6,9	28,8	76	19
37010HG0041A18	4 G 1	7,4	38,4	92	18
37010HG0041A16	4 G 1,5	8,1	57,6	120	16
37010HG0041A14	4 G 2,5	9,5	96	173	14
37010HG0041A12	4 G 4	11,2	153,6	255	12
37010HG0041A10	4 G 6	13,4	230,4	385	10
37010HG0041A08	4 G 10	16,3	384	595	8
37010HG0041A06	4 G 16	20,3	614,4	888	6
37010HG0041A04	4 G 25	24,2	960	1296	4

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ELETTROTEK KABEL® SPECIAL GAALFLEX® SERVO T 830

ELETTROTEK KABEL® SPECIAL GAALFLEX® SERVO T 830 C



DESINA® T 830 C

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	AWG no. (*)
37020HG0041A19	4 G 0,75	7,5	51,4	87	19
37020HG0041A18	4 G 1	8	66,7	105	18
37020HG0041A16	4 G 1,5	8,7	85,8	130	16
37020HG0041A14	4 G 2,5	10,1	130,2	183	14
37020HG0041A12	4 G 4	11,8	198,7	265	12
37020HG0041A10	4 G 6	14,4	300,6	397	10
37020HG0041A08	4 G 10	17,3	474,4	601	8
37020HG0041A06	4 G 16	21,3	724,9	913	6
37020HG0041A04	4 G 25	25	1090,8	1320	4
37020HG0041A02	4 G 35	30,2	1504,9	1863	2
37020HG0041A01	4 G 50	35,9	2155,8	2650	1
37020HG0041A2C	4 G 70	42,3	2970,8	3637	2/0

DESINA® SPECIAL T 830 C + 1 screened pair

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	AWG no. (*)
37025HG004BA19	4 G 0,75 + (2 x 0,5)C	10	89,6	124,2	19
37025HG004BA16	4 G 1,5 + (2 x 0,5)C	11,1	124,3	166,7	16
37025HG004BA14	4 G 2,5 + (2 x 0,5)C	11,3	162,6	207	14
37026HG004BA16	4 G 1,5 + (2 x 0,75)C	12,2	137,1	179,8	16
37026HG004BA14	4 G 2,5 + (2 x 0,75)C	12,4	175,4	220,3	14
37027HG004BA16	4 G 1,5 + (2 x 1)C	11,7	143,8	218,8	16
37027HG004BA14	4 G 2,5 + (2 x 1)C	12,7	187,8	271,4	14
37027HG004BA12	4 G 4 + (2 x 1)C	14,2	265,1	357,7	12
37027HG004BA10	4 G 6 + (2 x 1)C	15,9	352	466,3	10
37027HG004BA08	4 G 10 + (2 x 1)C	18,6	525,3	637,3	8
37027HG004BA06	4 G 16 + (2 x 1)C	22,2	775,9	936,4	6
37028HG004BA16	4 G 1,5 + (2 x 1,5)C	12,1	156,5	233,9	16
37028HG004BA14	4 G 2,5 + (2 x 1,5)C	13,1	200,6	286,7	14
37028HG004BA12	4 G 4 + (2 x 1,5)C	14,6	287,3	381,3	12
37028HG004BA10	4 G 6 + (2 x 1,5)C	16,3	374,3	490,2	10
37028HG004BA08	4 G 10 + (2 x 1,5)C	18,9	537,9	686,4	8
37028HG004BA06	4 G 16 + (2 x 1,5)C	22	788,4	979,7	6
37028HG004BA04	4 G 25 + (2 x 1,5)C	26,2	1154,5	1399,1	4
37028HG004BA02	4 G 35 + (2 x 1,5)C	30,6	1568,3	1914	2

DESINA® SPECIAL T 830 C + 2 screened pairs

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	AWG no. (*)
37025HG004B900	4 G 0,75 + (2 x 0,5)C + (2 x 0,5)C	11,2	122,1	196,7	19
37025HG004B901	4 G 1 + (2 x 0,75)C + (2 x 0,75)C	12,1	152,5	233,6	18
37025HG004B902	4 G 1,5 + (2 x 0,75)C + (2 x 0,75)C	12,7	177,1	264,8	16
37025HG004B903	4 G 2,5 + (2 x 1)C + (2 x 1)C	14,4	248,4	349,9	14
37025HG004B904	4 G 4 + (2 x 1)C + (2 x 1,5)C	16,3	338,5	460,5	12
37025HG004B905	4 G 6 + (2 x 1)C + (2 x 1,5)C	17,9	425,1	571,6	10
37025HG004B906	4 G 10 + (2 x 1)C + (2 x 1,5)C	20,4	589,2	771,9	8
37025HG004B907	4 G 16 + (2 x 1,5)C + (2 x 1,5)C	23,5	852,1	1082,5	6
37025HG004B908	4 G 25 + (2 x 1,5)C + (2 x 1,5)C	27,2	1217,6	1501,1	4

Other dimension and colours available on request.