

DATA CABLES

GAALFLEX® DATA LiYCY-CY

PVC data cable with individual and overall copper screen, 350/500 V

ELETTROTEK KABEL® GAALFLEX® DATA LiYCY-CY



Construction:

Conductor:	flexible red copper conductor Cl.5, acc.to IEC 60228, DIN VDE 0295
Insulation:	PVC type Yl2, acc. to DIN VDE 0207 part. 4
Colour cores:	acc. to DIN 47100
Stranding:	cores twisted in pairs, pairs twisted in layers
Individual screen:	pairs screened individually with tinned copper braid
Insulation pair:	PVC compound
Wrapping:	PETP foil
Screen:	tinned copper braid
Outer sheath:	grey (RAL 7001),PVC type YM2, acc. to DIN VDE 0207 part. 5

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

Technical data:

Nominal voltage:	0,14 mm ² = max.350V ≥ 0,25 mm ² = max 500 V
Test voltage:	0,14 mm ² = max 1,2 kV ≥ 0,25 mm ² = max 2 kV
Breakdown voltage:	0,14 mm ² = max. 2,4 kV ≥ 0,25 mm ² = max. 4kV
Temperature range	
<i>Fixed laying:</i>	- 40°C up to +80°C
<i>Flexible installation:</i>	- 5°C up to + 80°C
Min. bending radius	
<i>Fixed laying:</i>	6 x d
<i>Flexible installation:</i>	12 x d
Radiation resistance:	8 x 10 ⁻⁷ cJ/kg
Conductor resistance:	0,14 mm ² = 138 Ohm/km ≥ 0,25 mm ² = 77,8 Ohm/km
Screen resistance:	0,14 mm ² = 36 Ohm/km ≥ 0,25 mm ² = 18 Ohm/km
Mutual capacitance	
<i>Core/core:</i>	0,14 mm ² = 147 p _p f/m ≥ 0,25 mm ² = 152.5 p _p f/m
<i>Core/screen</i>	0,14 mm ² = 147 p _p f/m ≥ 0,25 mm ² = 263 p _p f/m
Impedence:	0,14 mm ² = 536 Ohm/1 kHz/20°C ≥ 0,25 mm ² = 396 Ohm/1 kHz/20°C
Coupling:	250 pF/100 m/1 kHz

Features:

on request tinned copper conductor
good EMC characteristics
flexible
small outer diameter
small bending radius
RoHS and CE approval



Applications:

this cable type offers total interference-free data transfer and is ideal for use as a signal and control cable in combination with computers and external units

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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. *)
35100C54022M01	2 x 2 x 0,14	7,3	31	95	26
35100C54032M01	3 x 2 x 0,14	7,5	34	105	26
35100C54042M01	4 x 2 x 0,14	9,3	45	140	26
35100C54052M01	5 x 2 x 0,14	10,5	58	160	26
35100C54062M01	6 x 2 x 0,14	11	61	185	26
35100C54072M01	7 x 2 x 0,14	11	78	230	26
35100C54082M01	8 x 2 x 0,14	13	97	245	26
35100C54092M01	9 x 2 x 0,14	14,1	101	280	26
35100C54102M01	10 x 2 x 0,14	14	108	325	26
35100C54122M01	12 x 2 x 0,14	15	134	380	26
35100C54162M01	16 x 2 x 0,14	17	179	440	26
35100C54202M01	20 x 2 x 0,14	17,8	225	520	26
35100C54022M02	2 x 2 x 0,25	9,5	62	125	24
35100C54032M02	3 x 2 x 0,25	10	78,2	140	24
35100C54042M02	4 x 2 x 0,25	12	124,1	205	24
35100C54052M02	5 x 2 x 0,25	12,1	137,6	230	24
35100C54062M02	6 x 2 x 0,25	13	148,1	275	24
35100C54072M02	7 x 2 x 0,25	16	159,1	295	24
35100C54082M02	8 x 2 x 0,25	17	178,7	330	24
35100C54102M02	10 x 2 x 0,25	17,2	213,9	420	24
35100C54122M02	12 x 2 x 0,25	17,5	238	465	24
35100C54162M02	16 x 2 x 0,25	22	291,4	590	24
35100C54202M02	20 x 2 x 0,25	22,6	325	620	24
35100C54242M02	24 x 2 x 0,25	27,5	367	690	24
35100C54322M02	32 x 2 x 0,25	29,8	588	785	24
35100C54482M02	48 x 2 x 0,25	34,5	840,5	970	24
35100D54022M03	2 x 2 x 0,34	10,1	73,1	139	22
35100D54032M03	3 x 2 x 0,34	11	88,1	157	22
35100D54042M03	4 x 2 x 0,34	12,4	137,2	213	22
35100D54062M03	6 x 2 x 0,34	14,5	174,8	308	22
35100D54082M03	8 x 2 x 0,34	17,6	247,2	385	22
35100D54102M03	10 x 2 x 0,34	17,6	288,7	433	22
35100D54122M03	12 x 2 x 0,34	18,5	321	495	22
35100D54142M03	14 x 2 x 0,34	20,7	388,4	600	22
35100D54162M03	16 x 2 x 0,34	22,5	425,5	637	22
35100D54242M03	24 x 2 x 0,34	28	577,1	781	22
35100D54022M05	2 x 2 x 0,50	10,8	83,1	143	20
35100D54032M05	3 x 2 x 0,50	11,4	106,4	179	20
35100D54042M05	4 x 2 x 0,50	13	158	241	20
35100D54062M05	6 x 2 x 0,50	14,9	201,4	319	20
35100D54082M05	8 x 2 x 0,50	18,8	311,5	441	20
35100D54102M05	10 x 2 x 0,50	18	334,5	464	20
35100D54122M05	12 x 2 x 0,50	20,1	394,1	529	20
35100D54142M05	14 x 2 x 0,50	21,6	446	641	20
35100D54162M05	16 x 2 x 0,50	23,8	501,2	694	20
35100D54242M05	24 x 2 x 0,50	28,4	712,4	930	20

Other dimension and colours available on request.