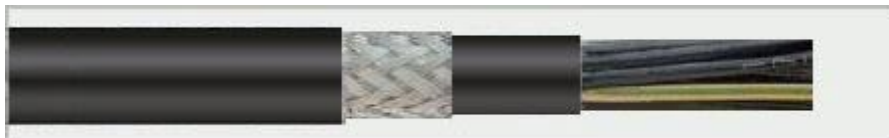


GAMAFLEX 600-JZ YCY GAMAFLEX 600-OZ YCY

Flexible control cable with Cu cores, with PVC insulation, inner and outer sheath, number coded, with or without green-yellow earth core, screen of tinned copper wire braiding, for rated voltage U_0/U 0.6/1kV



Application

As control and supply cables for control units in metal working machines, transportation equipment, production lines, as well as for control and measuring systems at rated voltage U_0/U 0,6 / 1 kV .

They are suitable for use in dry, damp or wet interiors at normal mechanical loads. These cables may be laid outdoors during a fixed installation without UV-protection only in observance of the temperature range. The cables are suitable for flexible applications for free, non-continuous returning movement, without tensile load as well as for fixed laying. Interference-free transmission of signal and pulses is assured by screen with high coverage.

They are not suitable for underground and underwater laying.

Technical data

- manufactured according to the EN 50525
- nominal voltage $U_0/U = 0,6/1$ kV
- test voltage: 4 kV
- max. conductor temperature - $+70^\circ\text{C}$
- max. conductor temperature at short circuit for 5s max. $+160^\circ\text{C}$
- insulation resistance at 70°C : min 20 $\text{G}\Omega \times \text{cm}$
- temperature range:
 - occasional flexing: -15°C^{**} to $+70^\circ\text{C}$;
 - fixed installation : -40°C^{**} to $+70^\circ\text{C}$

504/505/506: cold bending test, impact resistance test at low temperatures, elongation test at low temperatures

- min. temperature during installation: -15°C
- min. bending radius:
 - occasional flexing - 15 D;
 - fixed installation - 6 D (D - outer cable diameter)

- flame test - flame retardant according to EN 332-1-2
- black, UV resistant according to EN 60068-2-9

Cable design

- copper conductors class 5 according to IEC 60 228
- insulation - PVC compound type T12 according to EN 50363-3
- inner sheath - PVC compound type TM2 according to EN 50363-4-1
- screen of tinned-copper braiding, coverage 85+/-5%
- outer sheath - PVC compound type TM2 according to EN 50363-4-1
- outer sheath colour – black RAL 9005

Core identification all cores black, with imprinted numbers in accordance to EN 50334 and yellow/green core acc. to EN 60445

GAMAFLEX 600-JZ YCY - all cores black, with imprinted numbers and a green-yellow protective conductor in the outer layer

GAMAFLEX 600-OZ YCY- all cores black, with imprinted numbers

Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight		Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight
No x mm ²	mm	kg/km	kg/km		No x mm ²	mm	kg/km	kg/km
2 x 0,5	8,5	32,8	105		2 x 1,5	10,6	60,7	171
3 x 0,5	8,8	39,0	115		3 x 1,5	11,1	77,2	197
4 x 0,5	9,3	45,8	133		4 x 1,5	12,0	94,5	229
5 x 0,5	10,0	53,4	154		5 x 1,5	13,1	114	278
6 x 0,5	10,6	60,7	167		6 x 1,5	14,2	143	318

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Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight		Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight
No x mm ²	mm	kg/km	kg/km		No x mm ²	mm	kg/km	kg/km
7 x 0,5	10,6	65,5	171		7 x 1,5	14,2	158	328
8 x 0,5	12,1	75,7	217		8 x 1,5	16,4	183	415
9 x 0,5	12,8	83,3	242		9 x 1,5	17,1	201	459
10 x 0,5	13,0	88,9	246		10 x 1,5	17,4	216	466
11 x 0,5	13,0	93,7	250		11 x 1,5	17,4	231	483
12 x 0,5	13,0	98,5	254		12 x 1,5	17,4	245	505
14 x 0,5	13,7	111	280		14 x 1,5	19,0	307	588
15 x 0,5	14,2	129	303		15 x 1,5	19,6	326	619
16 x 0,5	14,6	135	323		16 x 1,5	19,9	342	651
18 x 0,5	15,3	148	353		18 x 1,5	21,3	380	735
19 x 0,5	15,3	153	357		19 x 1,5	21,3	394	747
20 x 0,5	15,8	160	380		20 x 1,5	22,1	413	794
21 x 0,5	16,3	168	404		21 x 1,5	22,8	433	844
22 x 0,5	16,5	174	414		22 x 1,5	23,0	449	867
24 x 0,5	17,1	186	426					
25 x 0,5	17,4	192	444		2 x 2,5	11,6	83,3	211
26 x 0,5	17,4	197	449		3 x 2,5	12,1	109	244
27 x 0,5	17,4	202	456		4 x 2,5	13,2	138	300
30 x 0,5	18,5	246	529		5 x 2,5	14,3	177	258
31 x 0,5	19,1	255	550		6 x 2,5	15,5	207	401
32 x 0,5	19,1	260	560		7 x 2,5	15,5	231	419
33 x 0,5	19,1	265	568		8 x 2,5	18,2	268	542
34 x 0,5	19,7	274	590		9 x 2,5	19,3	323	627
35 x 0,5	19,7	279	599		10 x 2,5	19,9	352	645
36 x 0,5	19,9	285	611		11 x 2,5	19,9	376	663
37 x 0,5	19,9	290	615		12 x 2,5	19,9	400	680
					14 x 2,5	20,9	453	766
2 x 0,75	9,0	39,8	120		15 x 2,5	21,6	483	811
3 x 0,75	9,4	48,5	135		16 x 2,5	22,0	509	860
4 x 0,75	9,9	57,8	153		18 x 2,5	23,2	566	948
5 x 0,75	10,6	67,9	175		19 x 2,5	23,2	590	969
6 x 0,75	11,3	78,0	195					
7 x 0,75	11,3	85,2	200		2 x 4,0	13,6	120	298
8 x 0,75	13,2	99,0	260		3 x 4,0	14,3	173	355
9 x 0,75	13,7	109	284		4 x 4,0	15,6	217	433
10 x 0,75	14,1	129	300		5 x 4,0	16,9	262	512
11 x 0,75	14,1	136	305		6 x 4,0	18,8	335	606
12 x 0,75	14,1	143	310		7 x 4,0	18,8	373	633
14 x 0,75	15,0	161	350		8 x 4,0	21,9	431	808
15 x 0,75	15,5	171	370		9 x 4,0	22,9	477	898
16 x 0,75	15,7	179	386		10 x 4,0	24,2	524	948
18 x 0,75	16,5	198	424		11 x 4,0	24,2	562	969
19 x 0,75	16,5	205	430		12 x 4,0	24,2	600	996
20 x 0,75	17,1	215	460					
21 x 0,75	17,9	226	497		2 x 6,0	15,1	176	383
22 x 0,75	18,4	260	536		3 x 6,0	15,8	237	452
24 x 0,75	19,2	279	559		4 x 6,0	17,0	301	545
25 x 0,75	19,5	290	583		5 x 6,0	19,1	395	687
26 x 0,75	19,5	297	589		6 x 6,0	20,8	462	775

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No x mm ²	mm	kg/km	kg/km		No x mm ²	mm	kg/km	kg/km
27 x 0,75	19,5	304	600		7 x 6,0	20,8	520	818
30 x 0,75	20,1	331	648					
31 x 0,75	21,0	341	683		2 x 10,0	18,6	295	587
32 x 0,75	21,0	348	694		3 x 10,0	19,6	398	698
33 x 0,75	21,0	355	707		4 x 10,0	21,4	505	863
34 x 0,75	21,6	367	730		5 x 10,0	23,3	614	1054
35 x 0,75	21,6	374	742					
36 x 0,75	21,9	383	763		2 x 16,0	20,2	422	760
37 x 0,75	21,9	390	770		3 x 16,0	21,5	582	932
					4 x 16,0	23,3	748	1155
2 x 1,0	9,4	46,1	133					
3 x 1,0	9,8	57,4	150					
4 x 1,0	10,4	69,5	174					
5 x 1,0	11,2	82,3	205					
6 x 1,0	12,1	94,8	227					
7 x 1,0	12,1	105	233					
8 x 1,0	14,0	133	305					
9 x 1,0	14,6	146	335					
10 x 1,0	15,1	157	350					
11 x 1,0	15,1	166	359					
12 x 1,0	15,1	176	366					
14 x 1,0	15,9	199	408					
15 x 1,0	16,4	211	428					
16 x 1,0	16,6	222	449					
18 x 1,0	17,7	272	512					
19 x 1,0	17,7	281	519					
20 x 1,0	18,8	296	580					
21 x 1,0	19,3	309	611					
22 x 1,0	19,6	321	633					
24 x 1,0	20,4	345	653					
25 x 1,0	20,7	357	681					
26 x 1,0	20,7	367	689					
27 x 1,0	20,7	377	701					
30 x 1,0	21,5	410	762					
31 x 1,0	22,3	425	796					
32 x 1,0	22,3	434	812					
33 x 1,0	22,3	444	830					
34 x 1,0	23,0	458	858					
35 x 1,0	23,0	468	872					
36 x 1,0	23,3	480	895					
37 x 1,0	23,3	489	903					