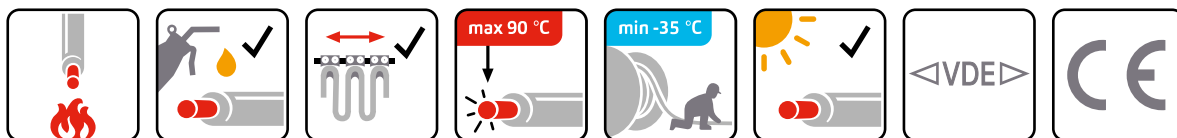


# Flat wire NGFLGÖU acc. to VDE 0250 T. 809



<b>conductor material:</b>	bare copper
<b>conductor construction:</b>	fine stranded class 6, up from 35 mm <sup>2</sup> class 5
<b>insulation:</b>	rubber (EPR) 3GI3, halogen-free
<b>sheathing material:</b>	rubber (CR) 5GM3
<b>flame retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>oil resistant:</b>	EN 60811-2-1
<b>ozone resistant:</b>	yes
<b>maximum temperature at conductor:</b>	90 °C
<b>max. operating temperature, fixed:</b>	-40 - +80 °C
<b>temperature, moved/during installation:</b>	-35 - +80 °C
<b>bending radius, fixed installation:</b>	5 x DA
<b>bending radius, moved application:</b>	10 x DA
<b>nominal voltage U<sub>0</sub>:</b>	300 V
<b>nominal voltage U:</b>	500 V
<b>core identification:</b>	colours acc. VDE 0293 (HD 308); more than 5 cores: gn-ye + numbers

**Application:** For the connection of mobile parts of machine tools, conveyor plants and major items of equipment, if the cable is exposed to bends in only one level; in dry, damp and wet areas as well as outdoors.



The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.

Table: Technical characteristics NGFLGÖU

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	b [mm]	h [mm]	F <sub>ZV</sub> [N]	Cu [kg/km]	G [kg/km]
050505	NGFLGOEU-J 04X1,5 SW	13,7	23	17,5	6,2	90	58	200
050506	NGFLGOEU-J 05X1,5 SW	13,7	23	21,5	6,2	112	72	240
050507	NGFLGOEU-J 07X1,5 SW	13,7	23	29,1	6,2	157	101	360
050508	NGFLGOEU-J 08X1,5 SW	13,7	23	31,5	6,2	180	115	370
050509	NGFLGOEU-J 10X1,5 SW	13,7	23	39,9	6,5	225	144	460
050374	NGFLGOEU-J 12X1,5 SW	13,7	23	47,1	6,5	270	173	620
050510	NGFLGOEU-J 24X1,5 SW	13,7	23	55,1	12,5	540	346	1300
050555	NGFLGOEU-J 04X2,5 SW	8,21	31	21,1	7,5	150	96	280
050568	NGFLGOEU-J 05X2,5 SW	8,21	31	27,1	7,5	187	120	332
050372	NGFLGOEU-J 07X2,5 SW	8,21	31	34,9	7,5	262	168	520
050511	NGFLGOEU-J 08X2,5 SW	8,21	31	39,1	7,5	300	192	550
050569	NGFLGOEU-J 10X2,5 SW	8,21	31	47,9	8,1	375	240	680

p/n	part name	R <sub>l</sub> [Ω/km]	I <sub>bl</sub> [A]	b [mm]	h [mm]	F <sub>zv</sub> [N]	Cu [kg/km]	G [kg/km]
050512	NGFLGOEU-J 12X2,5 SW	8,21	31	56,1	8,1	450	288	800
050570	NGFLGOEU-J 24X2,5 SW	8,21	31	68,2	16,2	900	576	1480
050513	NGFLGOEU-J 04X4 SW	4,95	42	26,1	9,1	240	154	410
050571	NGFLGOEU-J 05X4 SW	4,95	42	32,1	9,1	300	192	560
050373	NGFLGOEU-J 07X4 SW	4,95	42	41,9	9,1	420	269	700
050514	NGFLGOEU-J 04X6 SW	3,3	54	29,1	9,5	360	230	600
050521	NGFLGOEU-J 05X6 SW	3,3	54	35,1	9,5	450	288	650
050522	NGFLGOEU-J 07X6 SW	3,3	54	42,1	9,5	630	403	850
050515	NGFLGOEU-J 04X10 SW	1,91	75	33,1	11,1	600	384	800
050516	NGFLGOEU-J 04X16 SW	1,21	100	37,8	12,9	960	614	1150
050768	NGFLGOEU-J 05X10 SW	1,91	75	44,1	11,1	750	480	1135
050572	NGFLGOEU-J 05X16 SW	1,21	100	49,8	12,9	1200	768	1450
050517	NGFLGOEU-J 04X25 SW	0,78	127	49,5	15,1	1500	960	1700
050573	NGFLGOEU-J 05X25 SW	0,78	127	59,8	16,1	1875	1200	2200
050564	NGFLGOEU-J 07X25 SW	0,78	127	79,7	16,1	2625	1680	2930
050518	NGFLGOEU-J 04X35 SW	0,554	158	54,9	17,1	2100	1344	2200
050574	NGFLGOEU-J 07X35 SW	0,554	158	88,2	17,1	3675	2352	3820
050519	NGFLGOEU-J 04X50 SW	0,386	192	62,8	18,9	1500	1920	3000
050575	NGFLGOEU-J 04X70 SW	0,272	246	71,2	22,1	4200	2688	3910
050520	NGFLGOEU-J 04X95 SW	0,206	298	79,8	24,8	5700	3648	5300
050576	(N)GFLGOEU-J 04X120 SW	0,129	346	85,8	27,2	7200	4608	6400

24 cores = 6 bunches of 4 cores

R <sub>l</sub>	conductor resistance
I <sub>bl</sub>	ampacity (in air) (30°C)
b	width of (flat) cable
h	height of (flat) cable
F <sub>zv</sub>	tensile strength (during installation)
Cu	copper weight (ger)
G	weight