

Rubber flat cable

PLANOFLEX NGFLGOEU



Application: Screened Power and control cable for high mechanical requirements, frequently bendings in only one direction, especially for use in trolley systems on moving parts of machines and crans. Suitable for dry, humid and wet rooms and for outdoor use combined with specific EMC (electromagnetic compatibility) requirements.

Cores laid in parallel; for more than 12 cores: parallel bundles
(where applicable) Individual Screen (C) made of tinned copper braid, with coverage: individual 60%; TSP 80%

Travel speed:

- On non-motorized festoon system: up to 160m/min
- On motor-driven festoon system: up to 180m/min
(for speed beyond it is recommended to consult the manufacturer)

Construction and technical data:

Standard:	DIN VDE 0250-809, UL File E 113314
Conductor material:	copper, bare
Conductor construction:	class 6 = extra finely stranded, up from 35 sqmm class 5
Insulation:	rubber 3GI3
Sheathing material:	Gummi 5GM3
Colour of outer sheath:	black
UV-resistant:	yes
Oil-resistant:	EN 60811-404
Ozone-resistant:	yes
For outdoor use:	yes
Max. temperature at conductor, °C:	90 °C
Permitted outer cable temperature, fixed, °C:	-50 - +80 °C
Permitted outer cable temperature, moved, °C:	-35 - +80 °C
Bending radius, fixed installation:	4 x Ø
Bending radius, moving application:	5 x Ø
Maximum tensile strength at the conductor:	15 N/mm ²
Operating speed festoon, m/min.:	180 m/min.



PLANOFLEX NGFLGOEU-J

Nominal voltage U_o: 300 V
Nominal voltage U: 500 V
Test voltage: 2.5 kV
Protective conductor: yes
Core identification: colours acc. to VDE 0293 (HD308)

part no.	part name	RI [Ohm/km]	I _{bl} [A]	w [mm]	h [mm]	Cu	G [kg]
053247	04x1.5	13.3	24	15.8	6.2	58	167
053248	07x1.5	13.3	24	26.8	6	101	278
053449	08x1.5	13.3	24	29.3	6	115.2	310
053417	12x1.5	13.3	24	43.5	6.8	173	522
054635	42x1.5	13.3	24	72.3	16.1	605	1920
053249	04x2.5	7.98	32	19.5	7.3	96	258
053592	05x2.5	7.98	32	24.6	7.4	120	318
053593	07x2.5	7.98	32	32.8	7.4	168	441
053925	08x2.5	7.98	32	35.9	7.4	192	510
053450	04x4	4.95	43	23.5	8.9	154	390
053410	04x6	3.3	56	26.9	9.5	230.4	492
053337	05x6	3.3	56	34.1	9.6	288	649
054408	04x10	1.91	78	32.6	11	384	746
054641	05x10	1.91	78	41.6	11.3	480	976
053999	04x16	1.21	104	37.5	12.9	614.4	1110
053426	04X25	0.78	138	43.4	14.4	960	1500
053411	04x35	0.554	170	49.9	16.7	1344	2040
053251	04x4(C) (with ref. to)	4.95	43	29.3	10.2	270	538
052959	04x70 (C) (in Anlehnung)	0.272	263	73.8	23.9	3287	4770

PLANOFLEX NGFLGOEU-O

Nominal voltage U_o: 300 V
Nominal voltage U: 500 V
Test voltage: 2.5 kV
Protective conductor: no
Core identification: colours acc. to HD 308;
more than 5 cores: numbers

part no.	part name	RI [Ohm/km]	I _{bl} [A]	w [mm]	h [mm]	Cu	G [kg]
053250	07x(2x1)(C) (with ref. to)	19.5	19	56	11.3	447	1106
052882	04X(2X1)C	19.5	19	33.8	11.3	273	638
053073	06X(2X2,5)C	7.98	32	62.7	15.2	698	1703

RI	Conductor resistance
I _{bl}	Ampacity in air (30 °C)
w	Width
h	Height
Cu	Copper weight (GER)
G	net weight per 1000