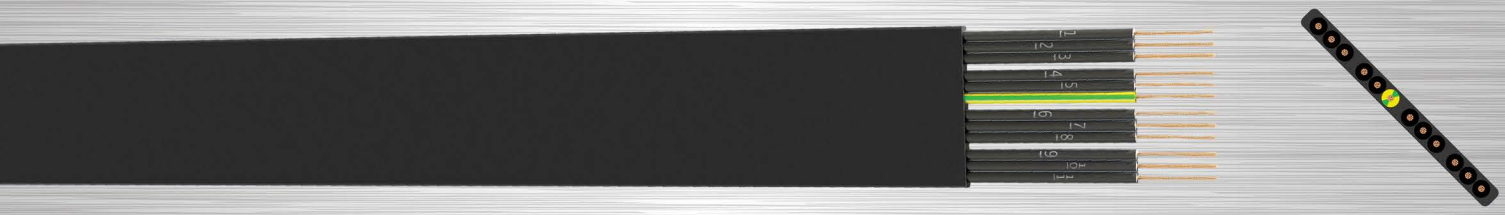


FLATFORM ELASTOMERIC NGFLGOEU

A flexible flat rubber cable for use in applications, indoor or outdoor, with high mechanical stresses, such as crane, festoon, conveyor or handling systems. The elastomeric compound demonstrates excellent abrasion resistance, can withstand extremely arduous conditions and is resistant to many chemicals and oils.

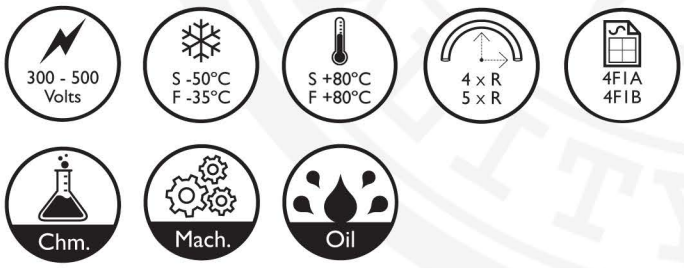
CONSTRUCTION

Plain or tinned copper class 5 or 6 conductor with ethylene propylene rubber (EPR) insulation, colour coded to 5 cores, 6 cores and above number coded with green yellow CPC. Cores laid parallel with a heavy duty polychloroprene (PCP) or chlorosulphonated polyethylene (CSP) sheath overall.

TECHNICAL DATA

VDE 0250-809

Nominal Voltage	300/500v
Test Voltage	2000v
Operating Temperature Static	-50°C to +80°C
Operating Temperature Flexing	-35°C to +80°C
Bending Radius	4 x cable thickness to 12mm, 5 x cable thickness above 12mm
Current Rating Table	4F1A & 4F1B*



FLATFORM ELASTOMERIC DIMENSIONS

Cores x mm²	Nom Dim mm	Weight kg / km
4 x 1.5	6.3 x 17.6	175
8 x 1.5	6.3 x 31.5	375
10 x 1.5	6.3 x 39.5	422
12 x 1.5	6.3 x 46.5	512
24 x 1.5	11.8 x 57.8	1065
4 x 2.5	7.5 x 19.8	255
7 x 4.0	8.5 x 37.8	675
7 x 6.0	8.7 x 42.6	912
7 x 10.0	10.3 x 53.2	1380
7 x 16.0	12.7 x 64.2	2350
7 x 25.0	14.2 x 74.5	3250
8 x 2.5	7.2 x 36.5	455
10 x 2.5	7.9 x 46.5	655
12 x 2.5	7.9 x 55.4	772
24 x 2.5	16.2 x 69.5	1575
4 x 4.0	8.5 x 24.3	425
4 x 6.0	9.2 x 26.5	535
4 x 10.0	10.8 x 32.8	735
4 x 50.0	18.6 x 59.8	2920
4 x 70.0	21.2 x 68.5	3844
4 x 95.0	23.8 x 76.6	4966
4 x 120.0	26.5 x 88.4	6350

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FLATFORM ELASTOMERIC NGFLGOEU

Table 4F1A
60°C thermosetting insulated flexible cables with sheath, non-armoured (Copper Conductors)

CURRENT-CARRYING CAPACITY (amperes):

Ambient temperature : 30°C
Conductor operating temperature: 60°C

Conductor Cross sectional area	Single-phase a.c. or d.c.	Three-phase a.c.	Single-phase a.c. or d.c.
	1 Two core cable, with or without protective conductor	1 Three core, four core or five core cable	2 Single core cables
1	2	3	4
(mm²)	(A)	(A)	(A)
4	30	27	-
6	39	34	-
10	51	47	-
16	73	63	-
25	97	83	-
35	-	102	140
50	-	124	175
70	-	158	216
95	-	192	258
120	-	222	302
150	-	255	347
185	-	291	394
240	-	343	471
300	-	394	541
400	-	-	644
500	-	-	738
630	-	-	861

NOTES:

1. The current ratings tabulated are for cables in free air but may also be used for cables resting on a surface. If the cable is to be wound on a drum on load the ratings should be reduced in accordance with NOTE 2 below and for cables which may be covered, NOTE 3 below

2. Flexible cables wound on reeling drums.

The current ratings of cables used on reeling drums are to be reduced by the following factors:

a) Radial type drum
   ventilated: 85%
   unventilated: 75%

b) Ventilated cylindrical type drum
   1 layer of cable: 85%
   2 layers of cable: 65%
   3 layers of cable: 45%
   4 layers of cable: 35%

A radial type drum is one where spiral layers of cable are accommodated between closely spaced flanges; if fitted with solid flanges the ratings given above should be reduced and the drum is described as non-ventilated. If the flanges have suitable apertures the drum is described as ventilated.

A ventilated cylindrical cable drum is one where layers of cable are accommodated between widely spaced flanges and the drum and end flanges have suitable ventilating apertures.

3. Where cable may be covered over or coiled up whilst on load, or the air movement over the cable restricted, the current rating should be reduced.

It is not possible to specify the amount of reduction but the table of rating factors for reeling drums can be used as a guide.

FLATFORM ELASTOMERIC NGFLGOEU

Table 4F1B

VOLTAGE DROP (per ampere per metre) Conductor operating temperature: 60°C

Conductor Cross sectional area	Two core cable d.c	Two core cable, Single-phase a.c.			1 Three core, four core or five core cable, Three-phase a.c.			2 Single core cables, touching			
								d.c.	Single-phase a.c.*		
1	2	3			4			5	6		
(mm²)	(mV/A/m)	(mV/A/m)			(mV/A/m)			(mV/A/m)	(mV/A/m)		
4	12	12			10			-	-		
6	7.8	7.8			6.7			-	-		
10	4.6	4.6			4.0			-	-		
16	2.9	2.9			2.5			-	-		
		r	x	y	r	x	y				
25	1.80	1.80	0.175	1.85	1.55	0.150	1.55	-	-	-	-
35	-	-	-	-	1.10	0.145	1.15	1.31	1.31	0.21	1.32
50	-	-	-	-	0.83	0.140	0.84	0.91	0.91	0.21	0.93
70	-	-	-	-	0.57	0.135	0.58	0.64	0.64	0.20	0.67
95	-	-	-	-	0.42	0.135	0.44	0.49	0.49	0.195	0.53
120	-	-	-	-	0.33	0.135	0.36	0.38	0.38	0.190	0.43
150	-	-	-	-	0.27	0.130	0.30	0.31	0.31	0.190	0.36
185	-	-	-	-	0.22	0.130	0.26	0.25	0.25	0.190	0.32
240	-	-	-	-	0.170	0.130	0.21	0.190	0.195	0.185	0.27
300	-	-	-	-	0.135	0.125	0.185	0.150	0.155	0.180	0.24
400	-	-	-	-	-	-	-	0.115	0.120	0.175	0.21
500	-	-	-	-	-	-	-	0.090	0.099	0.170	0.20
630	-	-	-	-	-	-	-	0.068	0.079	0.170	0.185

NOTE: * A larger voltage drop will result if the cables are spaced