



Special issue

This is a special issue of "FABER Aktuell". The main focus in this issue is on rubber insulated cables that have been designed especially for heavy-duty mechanical applications (movement).

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Top subject: LYNICRANE - flexible in every respect

We would like to familiarise you with the latest development from the highly flexible family of special cables at FABER KABEL.

After more than a year of intensive product development and testing, the industrial engineering department finally approved the cable types (N)GRDGÖu and (N)GRDGGÖu in September. The cables are structured in a special way that makes them suitable for the extreme conditions of crane equipment. Alongside the meticulous selection of insulation and sheathing materials, the features include a short strand length and fleece wrapped around the strand. Further special features are:

Nominal voltage	0.6/ 1 kV
Conductor temperature	90 °C
Torsional load	90°/m
Bending radius for S-shaped deviation	20 x D _A



The outside sheathing is resistant to oil and chemicals to a large extent. The cable has been subjected to a comprehensive range of tests by Vahle, a well-known company manufacturing movable current supply cables. For these tests, several cables were installed on a line carriage and subjected to movement in cycles over a period of 16 weeks. More than 40,000 cycles were completed in total. Mechanical wear as well as the electrical integrity of the cables were tested at regular intervals.

Both cable types are available immediately ex stock.



Types/dimensions NGRDGÖu

	D _A		G nom. [kg/km]	Cu- content	I _b [A]	F _Z max. [N]
	min. [mm]	max. [mm]				
1 x 25				240,0	129	
1 x 35	12,3	13,9	430	336,0	158	525
1 x 50	15,0	16,6	625	480,0	198	750
1 x 70	16,5	18,5	835	672,0	245	1050
1 x 95	18,9	20,9	1070	912,0	292	1425
1 x 120	20,8	22,8	1340	1.152,0	344	1800
1 x 150	22,9	24,9	1650	1.440,0	391	2250
1 x 185	24,8	27,8	2010	1.776,0	448	2775
4 x 4	13,9	15,5	350	153,6	34	240
4 x 6	15,9	17,9	475	230,4	44	360
4 x 10	18,2	20,2	680	384,0	61	600
4 x 16	22,9	24,9	1070	614,4	82	960
4 x 25	26,9	29,9	1600	960,0	108	1500
4 x 35	30,1	33,1	2090	1.344,0	135	2100
4 x 50	35,7	38,7	2970	1.920,0	168	3000
5 x 4	15,7	17,7	450	192,0	34	300
5 x 6	17,5	19,5	575	288,0	44	450
5 x 10	20,8	22,8	865	480,0	61	750
5 x 16	24,6	27,6	1300	768,0	82	1200
5 x 25	29,5	32,5	1940	1.200,0	108	1875
3 x35 + 3 x 16/3	27,7	30,7	1800	1.368,0	135	1575
3 x50 + 3 x 25/3	32,5	35,5	2540	1.896,0	168	2250
3 x70 + 3 x 35/3	39,1	42,1	3570	2.587,0	207	3150
12x 1,5	16,2	18,2	440	172,8	18	270
18x 1,5	18,7	20,7	615	259,2	18	405
24x 1,5	22,1	24,1	805	345,6	18	540
30x 1,5	23,3	25,3	930	432,0	18	675
36x 1,5	24,6	27,6	1090	518,4	18	810
12x 2,5	17,9	19,9	580	288,0	26	450
18x 2,5	21,5	23,5	865	432,0	26	650
24x 2,5	24,0	27,0	1110	576,0	26	900
30x 2,5	26,4	29,4	1330	720,0	26	1125
36x 2,5	28,4	31,4	1550	864,0	26	1350

D_A outer diameter
 G weight
 Cu copper content
 I_b current rating
 F_Z tension force



Types/dimensions NGRDGCGÖu

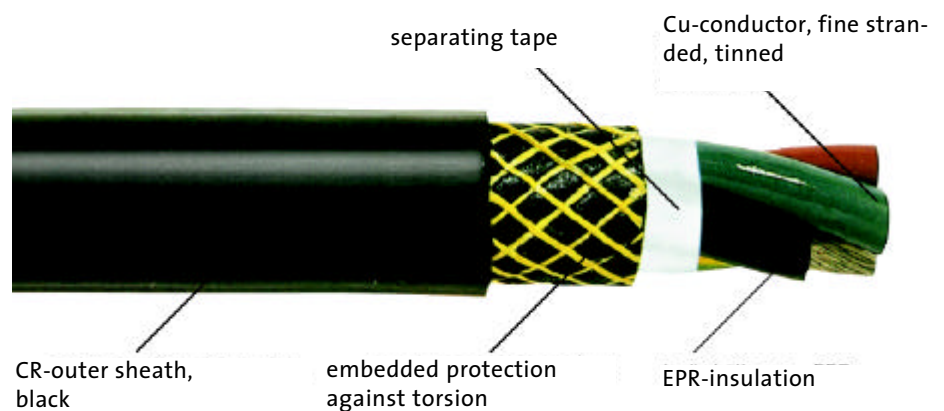
	D _A		G nom. [kg/km]	Cu- content	I _b [A]	F _Z max. [N]
	min. [mm]	max. [mm]				
3 x 4 + 3 x 4/3	20,0	22,0	705	313,0	34	180
3 x 6 + 3 x 6/3	21,3	23,3	910	394,0	44	360
3 x 10 + 3 x 10/3	24,6	27,6	1220	595,0	61	450
3 x 16 + 3 x 16/3	27,8	30,8	1630	876,0	82	720
3 x 25 + 3 x 16/3	30,9	33,9	2070	1.195,0	108	1125
3 x 35 + 3 x 16/3	33,1	36,1	2450	1.502,0	135	1575
3 x 50 + 3 x 25/3	38,6	41,6	2740	2.020,0	168	2250

Not exactly stiff either: cables NSHTÖuk suitable for winding

Another product designed for heavy movement loads is the cable NSHTÖU which can be wound on drums and has been in our production range for a short while now.

It can be used as a windable connection and control cable in lifting gear, conveyer systems and transport systems for heavy mechanical loads as well as in the form of a hawser, drum or towing cable. A high degree of torsion resistance is achieved with the aid of a layer of aramide fibres bedded in the outer sheathing. The cable can be used in dry, humid and wet rooms, outdoors and in water for industrial use and it is resistant to acids, lyes and oils to a large extent:

Nominal voltage:	0.6/1 kV
Test voltage:	2.5 kV
Max. operating temperature:	90 °C
Min. operating temperature:	
- movable:	- 25°C
- laid fixed:	- 40°C



Types/dimensions NSHTÖuk

	copper- content	D _A nom. [mm]	G [kg/km]	F _Z max. [N]
4 x 2,5	115,0	19,0	330	3.500
4 x 4	184,0	21,0	470	3.500
4 x 6	276,0	22,0	600	3.500
4 x 10	460,0	26,5	950	3.500
4 x 16	736,0	32,0	1.400	3.500
4 x 25	1.150,0	37,5	1.900	7.000
4 x 35	1.610,0	41,0	2.600	7.000
4 x 50	2.300,0	47,5	3.600	7.000
4 x 70	3.220,0	52,5	4.700	7.000
4 x 95	4.370,0	61,5	6.200	7.000
4 x 120	5.520,0	65,0	7.500	7.000
7 x 1,5	120,0	19,5	430	3.500
12 x 1,5	207,0	22,5	600	3.500
24 x 1,5	414,0	30,5	1.150	3.500
7 x 2,5	201,0	23,0	560	3.500
12 x 2,5	345,0	28,0	850	3.500
18 x 2,5	518,0	33,0	1.000	3.500
24 x 2,5	690,0	38,5	1.550	7.000
30 x 2,5	863,0	40,5	1.900	7.000
36 x 2,5	1.035,0	44,0	2.200	7.000
25 x 1,5 + 5 x 1,0 (C)	507,0	35,0	1.700	7.000
19 x 2,5 + 5 x 1,0 (C)	680,0	38,5	1.650	7.000
25 x 2,5 + 5 x 1,0 (C)	881,0	41,0	1.950	7.000

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