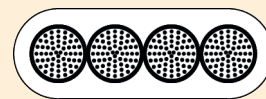
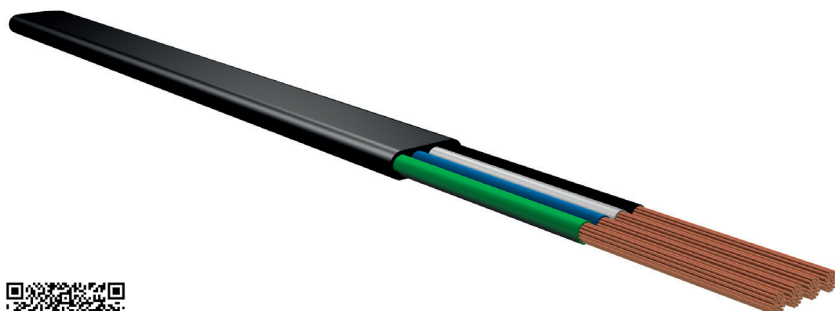


NGFLGÖU

Flat rubber cable

RoHS

CROSS SECTION



Acc. to VDE 0250 part 809

APPLICATION

As an energy and control cable subject to high mechanical loads and high bending frequencies during operations. Suitable for use on cable trolleys and for connection to moving parts on machine tools, assembly lines and similar as well as when bending on a single plane. The cables are used for crane systems, lifting equipment, handling systems and crane and container bridges and the flat cables can be installed in dry, damp and wet rooms as well as outdoors.

SPECIAL FEATURES

Sheath colour
Black

STRUCTURE

Conductor

According to DIN VDE 0295, electrolyte copper, bare, soft
Up to 25 mm²: very flexible (class 6), from 35 mm²: flexible (class 5)

Cores

Insulation according to DIN VDE 0207 part 20: Protolon; material basis EPR, rubber compound 3GI3, colours for up to 5 cores: green and yellow (or black for '...-O') black, blue, brown, grey; colours for more than 5 cores: black with white imprinted digits in parallel alignment; for more than 12 cores, parallel alignment in bundles

Shield (for shielded cores or core pairs)

Mesh of copper wires (tin plated), transfer impedance optimised at 30 MHz.
Fill level: approx. 60% with shielded cores, approx. 80% with shielded pairs

Outer sheath

Acc. to DIN VDE 0207 part 21, material basis CR, rubber compound 5GM3

TECHNICAL DATA

Nominal voltage	300 V/500 V
Test voltage	2500 V
Max. permissible operating voltage	U ₀ /U = 0.7/1.2 kV (in AC grids)
Max. permissible operating voltage	U ₀ /U = 0.9/1.8 kV (in DC grids)
Current carrying capacity	According to DIN BDE 0298 part 4
Ambient temperature	-35°C to +80°C (moving), -50°C to +80°C (fixed)
Max. operating temperature	+90°C (on conductor)
Short-circuit temperature	+250°C (on conductor)
Tensile strength	Up to 15 N/mm ²
Max. installation temperature	+80°C
Torsional load	None
Minimum bending radii	According to DIN VDE 0298 part 3
Minimum clearances	N/a (in the event of S-shaped deflection)
Travel speed	Crane trolley (reeling): n/a Crab trolley (cable trolley): up to 180 m/min (guide value)
Additional test	Bending test
Oil resistance	According to DIN VDE 0473 part 811-2-1 para. 10
Weather resistance	Unrestricted indoor and outdoor use, ozone, UV and moisture resistant

Product description		Cu weight	Max. outer dimensions (mm)	Weight (kg/km)	Product number
NGFLGÖU-J	4x10	384.0	11 x 33.3	730	105404010
NGFLGÖU-J	4x16	614.0	12.9 x 39.0	1263	105404016
NGFLGÖU-J	4x25	960.0	14.9 x 48.0	1638	105404025
NGFLGÖU-J	4x35	1344.0	17.0 x 51.0	2123	105404035
NGFLGÖU-J	4x50	1920.0	19.3 x 62.0	2916	105404050
NGFLGÖU-J	4x70	2688.0	22.0 x 69.0	3840	105404070
NGFLGÖU-J	4x95	3648.0	24.3 x 78.4	4960	105404095
NGFLGÖU-J	4x120	4608.0	26.5 x 85.4	6040	105404120
NGFLGÖU-J	8x1.5	115.0	6.3 x 32.0	335	105408015
NGFLGÖU-J	8x2.5	192.0	7.5 x 38.3	450	105408025
NGFLGÖU-J	10x1.5	144.0	6.9 x 40.5	420	105410015
NGFLGÖU-J	10x2.5	240.0	8.1 x 47.0	653	105410025
NGFLGÖU-J	12x1.5	173.0	6.9 x 47.6	510	105412015
NGFLGÖU-J	12x2.5	288.0	8.2 x 57.0	770	105412025
NGFLGÖU-J	24x1.5	346.0	13.5 x 59.4	1060	105424015