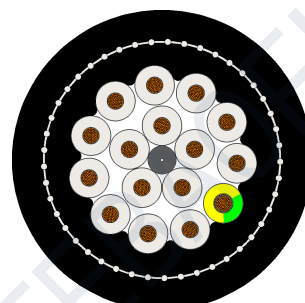




NSHTÖU

Reelable, oil resistant control and connection cable

Voltage rating: 600/1000 V. Based on DIN VDE 0250-814.



APPLICATION

Reeling cables are used for applications involving high mechanical stress, especially frequent winding and unwinding with simultaneous tensile and torsional stress. Suitable for construction machinery, conveying and lifting equipment, crane systems, mobile transport equipment, railway engines and mining. For dry, damp and wet rooms as well as outdoors.

CONSTRUCTION

Component	Description
Conductor	Tinned copper conductor, finely stranded acc. to DIN VDE 0295 class 5 / IEC 60228 class 5
Core insulation	Rubber acc. to DIN VDE 0207-20, compound type 3GI3
Core identification	3 - 5 cores: colour coded; 7 - 50 cores: black cores with consecutive white numbering
Protective conductor	G = with protective conductor GN-YE, in the outer layer
Stranding	Cores stranded in layers with optimal lay lengths
Bandage	Textile bandage
Inner sheath	Rubber
Protection	Anti-torsion protective layer
Outer sheath	Rubber acc. to DIN VDE 0207-21, compound type 5GM3
Sheath colour	Black

CHARACTERISTICS

Parameter	Value
Temperature range, flexible	-25 deg C to +90 deg C
Temperature range, fixed	-40 deg C to +90 deg C
Nominal voltage	AC Uo/U 600/1000 V
Max. operating voltage AC conductor/earth	700 V
Max. operating voltage AC conductor/conductor	1200 V
Max. operating voltage DC conductor/earth	900 V
Max. operating voltage DC conductor/conductor	1800 V
Test voltage core/core	2500 V
Tensile stress	15 N/mm ² during installation and operation

OPERATING CHARACTERISTICS

Parameter	Value
Minimum bending radius	Flexible: ≤ 20 mm, 5x outer OD; > 20 mm, 6x outer OD
Resistance	Oil, ozone, solvents, petrol, acids, chemicals and greases
Mechanical properties	Abrasion-resistant; for outdoor use; horizontal reeling operations
Reeling acceleration	Max. 0.4 m/s ²
Reeling velocity	Max. 120 m/min
Flame-retardant	DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
Oil-resistant test	DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
Approval	EAC

TECHNICAL DATA

DIMENSIONS

No. cores x cross-sec. (mm ²)	AWG approx.	Outer OD min - max (mm)	Cu weight (kg/km)	Weight approx. (kg/km)
3 G 1.5	16	11.3 - 14.8	43.0	236.0
4 G 1.5	16	12.1 - 15.6	58.0	274.0
5 G 1.5	16	13.0 - 16.5	72.0	316.0
7 G 1.5	16	15.0 - 19.0	101.0	440.0
12 G 1.5	16	19.1 - 21.9	173.0	606.0
16 G 1.5	16	20.9 - 23.1	230.0	696.0
18 G 1.5	16	21.7 - 25.0	260.0	750.0
24 G 1.5	16	24.6 - 28.6	346.0	1150.0
30 G 1.5	16	25.8 - 29.6	432.0	1325.0
3 G 2.5	14	12.7 - 16.3	72.0	305.0
4 G 2.5	14	14.8 - 17.7	96.0	350.0
5 G 2.5	14	15.9 - 18.8	120.0	465.0
7 G 2.5	14	16.8 - 21.1	168.0	576.0
12 G 2.5	14	21.0 - 25.1	288.0	850.0
18 G 2.5	14	24.9 - 28.7	432.0	1181.0
24 G 2.5	14	29.2 - 33.2	576.0	1550.0
30 G 2.5	14	30.7 - 34.4	720.0	1810.0
40 G 2.5	14	35.6 - 39.4	960.0	3110.0
50 G 2.5	14	43.9 - 45.6	1200.0	3200.0
4 G 4	12	16.4 - 19.2	154.0	510.0
5 G 4	12	17.7 - 20.4	192.0	635.0
4 G 6	10	17.6 - 20.6	230.0	650.0
5 G 6	10	19.8 - 23.2	288.0	800.0
4 G 10	8	21.8 - 24.9	384.0	1010.0
5 G 10	8	24.4 - 26.7	480.0	1200.0
4 G 16	6	25.1 - 29.1	614.0	1300.0
5 G 16	6	27.1 - 31.4	768.0	1700.0
4 G 25	4	31.6 - 35.5	960.0	2000.0
4 G 35	2	33.7 - 38.3	1344.0	2610.0
4 G 50	1	39.4 - 43.6	1920.0	3500.0
4 G 70	2/0	43.8 - 48.7	2688.0	4600.0
4 G 95	3/0	50.1 - 57.3	3648.0	6100.0
4 G 120	4/0	55.7 - 62.0	4860.0	7200.0

CERTIFICATIONS



TEBAOFLEX CABLE