

NSHTÖU

Drum cable for heavy duty



Cable structure

- Stranded tinned copper conductor according to DIN VDE 0295 and IEC 60228 cl. 5
- Rubber core insulation according to DIN VDE 0207 part 20
- Cores color coding according to DIN VDE 0293 or from 6 cores and more black cores with repeated white numbering
- Cores stranded with max. lay-length of 8 x cable diameter over the stranding layers
- Supporting tensile organ
- Textile tape
- Textile wrapping embedded in inner filling serves as protection against torsion
- Neoprene sheath, color black
- Self-extinguishing and flame resistant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

Application

Drum cables are used for high mechanical stress, especially with frequent winding and unwinding and simultaneous twisting with torsional stress for construction machines, conveyor-belts and cranes. These cables are used as stable and weather resistant cables for extreme conditions in mining and handling devices, locomotives etc. Due to the neoprene outer sheath, the cable is resistant to ozone and UV radiation, oils, acids, fats, petrols, solvents and chemicals. This cable type is ideal for outer installation in dry, moist and wet areas.

Note

- During installation and operation the tensile stress cannot exceed 20 N/mm²
- Max. premissible running speed when winding 120 m/min
- After unwinding, 1 to 2 convolutions should remain on the drum
- In case of high mechanical stress, especially high expansive stress results in high acceleration therefore max. permitted load must be defined in advance

CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC.
Conforms to RoHS.

Technical data

- Special crane-drum cables according to DIN VDE 0250 part 814
- **Temperature range** flexing from -30 °C to +80 °C
fixed from -40 °C to +80 °C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Max. permitted nominal voltages**
a.c. U_0/U 0,7/1,2 kV
d.c. 1,8 kV
- **Test voltage a.c.** 2500 V
- **Insulation resistance** min. 10 M Ω × km
- **Minimum bending radius** 10× cable diameter
- **Radiation resistance** up to 20 × 10⁶ cJ/kg (up to 20 Mrad)

Ordering code	Number of cores × core cross section [mm ²]	Approx. outer \varnothing [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0726001	3 × 1,5	13,8	47	236
0726029	4 × 1,5	15,0	58	274
0726002	5 × 1,5	15,8	80	316
0726003	7 × 1,5	16,8	115	390
0726004	12 × 1,5	23,5	196	606
0726005	16 × 1,5	24,5	300	696
0726006	18 × 1,5	25,8	303	743
0726007	24 × 1,5	31,0	392	1115
0726008	42 × 1,5	35,4	633	1770
0726009	3 × 2,5	15,0	75	305
0726010	4 × 2,5	17,3	96	416
0726011	5 × 2,5	18,6	124	465
0726012	7 × 2,5	20,0	180	576
0726013	12 × 2,5	25,0	308	905
0726014	18 × 2,5	28,0	450	1181
0726015	24 × 2,5	33,0	616	1585
0726016	30 × 2,5	35,0	771	1840
0726017	40 × 2,5	43,5	960	3110
0726018	50 × 2,5	48,4	1200	4380

Ordering code	Number of cores × core cross section [mm ²]	Approx. outer \varnothing [mm]	Cooper weight [kg/km]	Approx. cable weight [kg/km]
0726019	4 × 4,0	19,0	160	550
0726020	4 × 6,0	22,0	240	683
0726021	4 × 10,0	24,0	404	1018
0726023	4 × 16,0	29,0	642	1370
0726024	4 × 25,0	38,0	1005	1970
0726025	4 × 35,0	39,0	1410	2610
0726026	4 × 50,0	44,0	2010	3600
0726027	4 × 70,0	52,0	2688	5356
0726028	4 × 95,0	60,0	3648	7018
0726030	5 × 4,0	20,6	220	641
0726031	5 × 6,0	23,0	317	820
0726022	5 × 10,0	28,0	528	1200
0726032	5 × 16,0	31,5	768	1630