



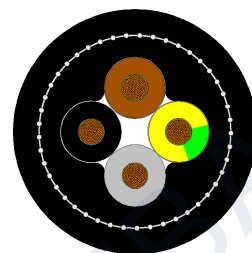
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

NSHTOU

600/1000 V rubber-sheathed crane and reeling cable



APPLICATION

Flexible rubber-sheathed crane and reeling cable for frequent winding and unwinding in dry, humid and outdoor locations. Suitable for cable drums, line chains, piped vehicles, cranes and other moving mechanical equipment where the cable is exposed to heavy tensile load, torsion and forced bending. The torsion-protection plaiting, oil-resistant flame-retardant outer sheath and fine-stranded conductors support travel speeds up to 120 m/min.

CONSTRUCTION

Component	Description
Conductors	Fine-stranded tinned copper conductors, Class 5 according to DIN EN 60228
Core insulation	Ethylene-propylene rubber (EPR) compound
Core identification	Identification according to HD 308 S2 and DIN VDE 0293-1
Inner sheath	Rubber compound 5GM2 with open plaiting of plastic threads for torsion protection
Outer sheath	Black polychloroprene rubber compound 5GM2, oil resistant and flame retardant

CHARACTERISTICS

- Designed for frequent reeling on drums, line chains and moving mechanical equipment.
- Suitable for dry, humid and outdoor locations.
- Withstands heavy tensile and torsional loads as well as forced bending.
- Maximum stated travel speed: 120 m/min.
- Minimum bending radius: 8 x cable overall diameter.
- Oil resistance and flame-retardant performance according to the stated standards.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage U ₀ /U	V	600 / 1000
AC test voltage	V	4000
Temperature range in motion	°C	-20 to +90
Short-circuit temperature	°C	+200
Maximum short-circuit duration	s	5
Minimum bending radius		8 x overall diameter
Cable standard		DIN VDE 0250-814
Oil / flame standards		EN 60811-2-1 / EN 60332-1-2

TECHNICAL DATA

DIMENSIONS AND WEIGHT

Nominal conductor construction, cable dimensions and weight from the source specification.

Number of cores x nominal cross-section mm2	Copper figure kg/km	Conductor construction approx. mm	Overall diameter approx. mm	Weight approx. kg/km
1.5 mm2 CONDUCTOR SIZES				
4 x 1.5	60	44 x 0.21	11.8	222
5 x 1.5	75	44 x 0.21	12.7	260
7 x 1.5	105	44 x 0.21	16.0	380
12 x 1.5	180	44 x 0.21	22.0	720
18 x 1.5	270	44 x 0.21	22.1	770
24 x 1.5	360	44 x 0.21	26.1	1000
30 x 1.5	450	44 x 0.21	29.5	1320
2.5 mm2 CONDUCTOR SIZES				
4 x 2.5	100	73 x 0.21	14.4	335
5 x 2.5	125	73 x 0.21	15.4	390
7 x 2.5	175	73 x 0.21	17.9	505
12 x 2.5	300	73 x 0.21	25.0	970
18 x 2.5	450	73 x 0.21	25.9	1100
24 x 2.5	600	73 x 0.21	30.8	1450
30 x 2.5	750	73 x 0.21	34.9	1950
NOTES				

- Copper figures, conductor construction, diameters and weights are reproduced from the source specification.
 - Values are approximate and apply to the listed construction and conductor size.
- Conductor construction is shown as approximate strand count x individual wire diameter in mm.
 - Final selection must consider travel speed, reeling duty, tensile load, torsion and bending conditions.

TECHNICAL DATA

DIMENSIONS AND WEIGHT

Nominal conductor construction, cable dimensions and weight from the source specification.

Number of cores x nominal cross-section mm2	Copper figure kg/km	Conductor construction approx. mm	Overall diameter approx. mm	Weight approx. kg/km
4-CORE POWER SIZES				
4 x 4	160	75 x 0.26	16.0	435
4 x 6	240	119 x 0.26	17.4	530
4 x 10	400	196 x 0.26	21.3	830
4 x 16	640	210 x 0.31	24.7	1170
4 x 25	1000	336 x 0.31	31.4	1830
4 x 35	1400	475 x 0.31	33.9	2280
4 x 50	2000	684 x 0.31	40.2	3220
4 x 70	2800	551 x 0.41	44.5	4200
4 x 95	3800	722 x 0.41	51.0	5530
5-CORE POWER SIZES				
5 x 4	200	75 x 0.26	17.3	520
5 x 6	300	119 x 0.26	19.7	690
5 x 10	500	196 x 0.26	23.1	1000
5 x 16	800	210 x 0.31	26.8	1400
5 x 35	1750	475 x 0.31	38.3	2950

NOTES

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CERTIFICATIONS



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