



Mining trailing & reeling cables

Drilling Mast 600–2000 V

Drilling Mast Cable (600–2,000 V · 2/C + Control + Ground)

Two-conductor 600–2,000 V EPR/CPE hybrid power & control cable for blasthole drill masts



ICEA S-75-381 / CSA C22.2 No. 96

600–2,000 V · 2P+G+Ctrl

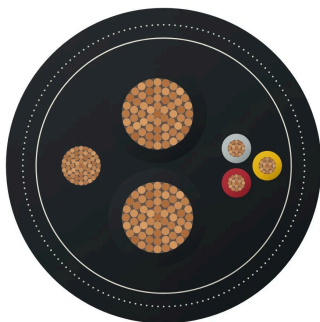
Mast Loop & Power Track

Application

Heavy-duty 600–2,000 V two-conductor drilling mast cable to ICEA S-75-381 & CSA C22.2 No. 96 with rope-lay tinned copper power cores (1/0 AWG–500 kcmil), custom control bundle, ground wire and braid-reinforced jacket.

Typical uses: Rotary blasthole drill masts, Top-head drive vertical loops, Drill mast cable carriers & tracks, Dragline & shovel boom festoons, Mobile crusher & stacker loops, Arctic & open-pit surface mines

Construction



Cross-section, not to scale

1	Power conductors (2)	ASTM B172 & ASTM B33
2	Power core insulation	ICEA S-75-381 / CSA C22.2 No. 96
3	Grounding & custom control group	
4	Core binder tape	
5	Anti-stretch reinforcing braid	
6	Reinforced outer jacket	MSHA · ICEA S-75-381 · CSA FT4

Technical data

Typical values

Rated voltage	600 V to 2,000 V AC/DC (rotary drill DC/VFD top-head drives, pulldown hoists and mast power loops)	Ampacity range (40 °C)	217 to 524 A (90 °C conductor temperature, 40 °C ambient in free air)
Hybrid control & ground cores	2 power cores + 1 flexible tinned copper ground + customer-specified control wire bundle	Max. continuous conductor temp.	+90 °C (EPR thermoset insulation)
Ambient operating range	–40 °C to +90 °C (arctic surface-mine cold-bend rated)	Emergency overload & short-circuit	+130 °C overload · +250 °C short-circuit (ICEA EPR rating)
Min. bending radius	6 × OD (continuous mast flexing, hanging loops and power tracks)	Conductor stranding	Extra-flexible rope-lay stranded annealed tinned copper (266 to 1,221 strands) per ASTM B172 & B33
Reinforcement & outer jacket	Non-conducting tape + polypropylene reinforcing braid + reinforced mold-cured thermoset CPE/rubber jacket	Flame retardance	MSHA 30 CFR Part 7 flame resistance · CSA C22.2 No. 96 FT4
Vibration, whip & rock impact	Reinforced two-layer thermoset jacket with internal polypropylene braid prevents jacket creep on vertical drill masts	Oil, sunlight & drill cuttings	Resistant to hydraulic oil, rock-drill thread grease, UV sunlight, ozone and wet drill cuttings
Standards	ICEA S-75-381 / NEMA WC 58 · CSA C22.2 No. 96		

Sizes

7 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Power cores 2×AWG/kcmil	Power stranding No. strands	Control & ground configuration	Insul. wall in	Insul. wall mm	Nominal OD in	Nominal OD mm	Weight ≈ lb./kft	Mass ≈ kg/km	Ampacity A (40 °C)
☐ Drilling Mast · 2 × 1/0 AWG	266	Custom + 1G	0.080	2.03	1.52	38.6	1,780	2,649	217
☐ Drilling Mast · 2 × 2/0 AWG	323	Custom + 1G	0.080	2.03	1.65	41.9	2,425	3,609	250
☐ Drilling Mast · 2 × 3/0 AWG	418	Custom + 1G	0.080	2.03	1.77	45.0	2,872	4,274	286
☐ Drilling Mast · 2 × 4/0 AWG	532	Custom + 1G	0.080	2.03	1.92	48.8	3,478	5,176	328
☐ Drilling Mast · 2 × 250 kcmil	627	Custom + 1G	0.095	2.41	2.10	53.3	4,155	6,183	363
☐ Drilling Mast · 2 × 350 kcmil	888	Custom + 1G	0.095	2.41	2.36	59.9	5,483	8,160	436
☐ Drilling Mast · 2 × 500 kcmil	1,221	Custom + 1G	0.095	2.41	2.70	68.6	7,249	10,788	524

- Ampacity based on 90 °C conductor temperature and 40 °C ambient air per ICEA S-75-381.
- Number and AWG size of interstitial control wires are built to customer specification to match the rotary drill mast junction box.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/drilling-mast-cable



Typical values for this cable type, based on ICEA S-75-381 / NEMA WC 58 · CSA C22.2 No. 96. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.