



Reeling & drum cables

Type W Magnet Crane 2 kV

Magnet Crane Cable — Type W 2 kV, Aramid-Reinforced

Class K extra-flexible 2C & 4C (8–2/0 AWG) EPDM / double aramid-reinforced jacket



UL 62 / ICEA S-75-381

2,000 V · Class K

Aramid Cut-Resistant

Application

Extra-flexible 2,000 V Type W lifting-magnet crane cable with Class K 30 AWG rope-lay copper conductors, color-coded thermoset EPDM insulation, impact fillers and a double aramid-reinforced thermoset jacket for scrap yards, foundries and steel mills.

Typical uses: Scrap-yard lifting-magnet cranes, Steel mills & casting bays, Foundries & furnace charging, Auto-shredder & recycling cranes, Barge & dockside scrap handlers, Severe-impact portable power

Construction



Cross-section, not to scale

1	Conductors (2 or 4)	ASTM B172 (168/30 to 1330/30)
2	Conductor separator	
3	Primary insulation	UL 62 / ICEA S-75-381
4	Cabling impact fillers	
5	Aramid reinforcement	
6	Outer jacket	UL Type W · CSA Type W FT1

Technical data

Typical values

Rated voltage	2,000 V AC / DC (UL Listed Type W & CSA Type W)	Ampacity range	81 to 296 A (2-conductor, 8 AWG–2/0 AWG) · 56 to 132 A (4-conductor, 8 AWG–2 AWG)
Conductor stranding	Extra-flexible Class K rope stranding (30 AWG / 0.254 mm fine strands, 168 to 1,330 strands), soft-drawn uncoated copper	Operating temperature range	–50 °C to +105 °C continuous compound rating (UL Listed Type W 90 °C wet or dry)
Foundry heat performance	Cross-linked thermoset EPDM insulation and thermoset jacket resist softening, deformation or flow near foundry and steel-mill radiant heat	Minimum bend diameter	7.0 to 13.0 in (177.8 to 330.2 mm) minimum bend diameter (~4 × OD bend radius / ~8 × OD bend diameter)
Jacket & aramid reinforcement	Double-layer aramid fiber-reinforced thermoset jacket (0.125 to 0.190 in / 3.2 to 4.8 mm wall) for extreme metal cut-through, puncture and tear resistance	Impact fillers & strain relief	Non-wicking hygroscopic impact fillers in core interstices; install with basket-weave strain-relief grips ≥ 12 in (305 mm) long
Cut-through, tear & impact	Engineered against jagged scrap-steel cut-through, pinch crushing, puncture, tearing, abrasion and repetitive reeling/festoon impact	Flame, water & oil resistance	CSA FT1 vertical flame rating; UL 90 °C wet/dry oil-, moisture-, ozone- and sunlight-resistant thermoset jacket
Standards	UL 62; ANSI/NEMA WC 58; ICEA S-75-381		

Sizes

11 standard constructions

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

Configuration · AWG	Class K stranding	Insulation in	Insulation mm	Jacket in	Jacket mm	Cable OD in	Cable OD mm	Min. bend Ø in	Min. bend Ø mm	Weight ≈ lb/kft	Mass ≈ kg/km	Ampacity A
2-Conductor (2C) · 8 AWG to 2/0 AWG · DC Lifting Magnet 7 sizes												
☐ 2 × 8 AWG · Type W Magnet	168/30	0.060	1.5	0.125	3.2	0.880	22.4	7.0	177.8	455	677	81
☐ 2 × 6 AWG · Type W Magnet	259/30	0.060	1.5	0.125	3.2	0.945	24.0	8.0	203.2	574	854	107
☐ 2 × 4 AWG · Type W Magnet	420/30	0.060	1.5	0.140	3.6	1.075	27.3	9.0	228.6	749	1,115	142
☐ 2 × 2 AWG · Type W Magnet	665/30	0.060	1.5	0.155	3.9	1.235	31.4	10.0	254.0	1,042	1,551	189
☐ 2 × 1 AWG · Type W Magnet	836/30	0.080	2.0	0.170	4.3	1.460	37.1	12.0	304.8	1,585	2,359	221
☐ 2 × 1/0 AWG · Type W Magnet	1045/30	0.080	2.0	0.170	4.3	1.608	40.6	13.0	330.2	1,868	2,780	256
☐ 2 × 2/0 AWG · Type W Magnet	1330/30	0.080	2.0	0.170	4.3	1.630	41.4	13.0	330.2	1,926	2,866	296
4-Conductor (4C) · 8 AWG to 2 AWG · Multi-Core Crane / Magnet 4 sizes												
☐ 4 × 8 AWG · Type W Magnet	168/30	0.060	1.5	0.140	3.6	1.040	26.4	8.0	203.2	612	911	56
☐ 4 × 6 AWG · Type W Magnet	259/30	0.060	1.5	0.140	3.6	1.110	28.2	9.0	228.6	834	1,241	75
☐ 4 × 4 AWG · Type W Magnet	430/30	0.060	1.5	0.175	4.4	1.300	33.0	10.0	254.0	1,190	1,771	98
☐ 4 × 2 AWG · Type W Magnet	665/30	0.060	1.5	0.190	4.8	1.480	37.6	12.0	304.8	1,679	2,499	132

- Stranding notation '168/30' to '1330/30' indicates strand count × 30 AWG (0.254 mm) extra-flexible Class K rope-lay bare copper.
- Minimum bend diameter is the smallest allowable drum barrel or sheave diameter (corresponding to a minimum bend radius of ~4 × OD).
- Install with basket-weave strain-relief grips of at least 12 in (305 mm) length at reel and magnet ends.

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/magnet-crane-cable-type-w-2kv



Typical values for this cable type, based on UL 62 / ICEA S-75-381 / NEMA WC 58. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.