



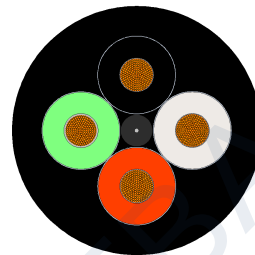
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

TYPE W

600 V to 2000 V portable mining cable - 2C, 3C and 4C configurations



APPLICATION

Heavy-duty flexible portable power cable for underground and surface mining equipment, available in two-, three- and four-conductor round or flat configurations. Suitable for pumps, drills, conveyors, shuttle cars, cutters, loaders, continuous miners and other mobile or fixed machinery requiring dependable 600 V to 2000 V power transmission. The flexible tinned-copper conductors, EPR insulation and reinforced CPE jacket withstand repeated bending, dragging, impact, abrasion, oil, moisture, mud, ozone, sunlight and harsh outdoor or underground operating conditions.

CONSTRUCTION

Component	Description
Conductors	Two-, three- or four-core flexible rope-lay stranded annealed tinned copper conductors
Insulation	Heat-, moisture- and ozone-resistant ethylene-propylene rubber (EPR)
Core identification	Colour-coded insulated conductors for installation and maintenance identification
Core assembly	Round or flat flexible configurations according to conductor count and application
Reinforcement	Synthetic yarn reinforcement for increased mechanical strength
Outer jacket	Extra-heavy-duty chlorinated polyethylene (CPE), black
Optional jacket compounds	CSP, PCP, NBR or PVC compounds available for specific service requirements
Optional jacket design	Two-layer jacket with reinforcing fibre between layers

CHARACTERISTICS

- Heavy-duty flexible Type W portable power cable for underground and surface mining service.
- EPR insulation provides stable electrical and thermal performance.
- Extra-heavy-duty CPE jacket resists abrasion, oil, ozone, sunlight and moisture.
- Flexible construction supports repeated handling, bending, dragging and relocation.
- Two-, three- and four-conductor round or flat configurations are covered by the supplied tables.
- Maximum continuous conductor operating temperature: +90 deg C.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage range	V	600 to 2000
Configurations covered		Round 3C; round 4C; flat 2C; flat 4C section
Maximum conductor temperature	°C	+90
Minimum bending radius		6 x overall cable dimension
Primary cable standard		ICEA S-75-381 / NEMA WC 58
Conductor standards		ASTM B172; ASTM B33
Canadian standard		CAN/CSA-C22.2 No. 96

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Construction cores x AWG/kcmil	Strands	Insulation in / mm	Nominal overall dimension(s) in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE W ROUND 3C - UNDERGROUND MINING					
3 x 8	133	0.060 / 1.5	0.91 / 23.1	550 / 818	59
3 x 6	133	0.060 / 1.5	1.01 / 25.7	730 / 1086	79
3 x 4	259	0.060 / 1.5	1.17 / 29.7	1020 / 1518	104
3 x 2	259	0.060 / 1.5	1.34 / 34.0	1430 / 2128	138
3 x 1	259	0.080 / 2.0	1.51 / 38.4	1800 / 2678	161
3 x 1/0	266	0.080 / 2.0	1.65 / 41.9	2140 / 3184	186
3 x 2/0	342	0.080 / 2.0	1.75 / 44.5	2580 / 3839	215
3 x 3/0	418	0.080 / 2.0	1.89 / 48.0	2922 / 4347	249
3 x 4/0	532	0.080 / 2.0	2.04 / 51.8	3800 / 5654	287
3 x 250	741	0.095 / 2.4	2.39 / 60.7	4368 / 6500	320
3 x 350	888	0.095 / 2.4	2.66 / 67.5	5895 / 8772	394
3 x 500	1221	0.095 / 2.4	2.98 / 75.8	7820 / 11638	487
NOTES					

- All imperial and metric values are reproduced from the corresponding Word specification table.
 - Ampacity values apply to the stated construction and conductor size.
- Single values indicate nominal diameter; paired values indicate nominal H x W dimensions.
 - Final cable selection must consider installation method, ambient conditions and applicable regulations.

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Construction cores x AWG/kcmil	Strands	Insulation in / mm	Nominal overall dimension(s) in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE W 4C - SURFACE MINING					
4 x 6	133	0.060 / 1.5	0.67 x 1.69 / 17.0 x 42.9	895 / 1332	72
4 x 4	259	0.060 / 1.5	0.75 x 1.89 / 19.0 x 48.0	1185 / 1764	93
4 x 2	259	0.060 / 1.5	0.84 x 2.23 / 20.6 x 56.6	1620 / 2411	122
4 x 1	259	0.080 / 2.0	0.97 x 2.60 / 24.6 x 66.0	2100 / 3125	143
4 x 1/0	259	0.080 / 2.0	1.01 x 2.73 / 25.7 x 69.3	2500 / 3721	165
4 x 2/0	329	0.080 / 2.0	1.10 x 2.96 / 27.9 x 75.2	2900 / 4316	192
4 x 3/0	413	0.080 / 2.0	1.18 x 3.25 / 30.0 x 82.6	3500 / 5209	221
4 x 4/0	532	0.080 / 2.0	1.29 x 3.46 / 32.8 x 87.9	4225 / 6288	255

NOTES

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TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Construction cores x AWG/kcmil	Strands	Insulation in / mm	Nominal overall dimension(s) in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE W FLAT 2C - UNDERGROUND MINING					
2 x 8	133	0.060 / 1.5	0.51 x 0.84 / 13.0 x 21.3	340 / 506	72
2 x 6	133	0.060 / 1.5	0.56 x 0.93 / 14.2 x 23.6	440 / 655	95
2 x 4	259	0.060 / 1.5	0.61 x 1.05 / 15.5 x 26.7	550 / 818	127
2 x 3	259	0.060 / 1.5	0.68 x 1.14 / 17.3 x 29.0	675 / 1005	145
2 x 2	259	0.060 / 1.5	0.73 x 1.24 / 18.5 x 31.5	810 / 1205	167
2 x 1	259	0.080 / 2.0	0.81 x 1.40 / 20.6 x 35.6	1020 / 1520	191
2 x 1/0	259	0.080 / 2.0	0.93 x 1.51 / 23.6 x 38.2	1265 / 1880	217
2 x 2/0	329	0.080 / 2.0	0.99 x 1.63 / 25.1 x 41.4	1515 / 2255	250
2 x 3/0	413	0.080 / 2.0	1.03 x 1.77 / 26.2 x 45.0	1810 / 2694	286
2 x 4/0	532	0.080 / 2.0	1.10 x 1.89 / 27.9 x 48.0	2175 / 3237	328

NOTES

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TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Construction cores x AWG/kcmil	Strands	Insulation in / mm	Nominal overall dimension(s) in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE W - ADDITIONAL 2C DATA					
2 x 8	166	0.060 / 1.5	0.83 / 21.1	391 / 581	72
2 x 6	259	0.060 / 1.5	0.94 / 23.9	571 / 849	95
2 x 4	412	0.060 / 1.5	1.07 / 27.3	793 / 1180	127
2 x 2	259	0.060 / 1.5	1.26 / 32.1	1142 / 1699	167
2 x 1/0	414	0.080 / 2.0	1.51 / 38.3	1693 / 2520	217
2 x 2/0	522	0.080 / 2.0	1.65 / 41.9	1908 / 2840	250
2 x 3/0	658	0.080 / 2.0	1.77 / 45.0	2600 / 3870	286
2 x 4/0	829	0.080 / 2.0	1.92 / 48.8	2675 / 3980	328
2 x 250	973	0.095 / 2.4	2.10 / 53.3	3434 / 5110	363

NOTES

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 - Final cable selection must consider installation method, ambient conditions and applicable regulations.

CERTIFICATIONS

