



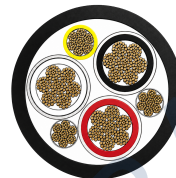
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

SHD-GC

2 kV to 25 kV three-conductor portable mining power cable



APPLICATION

Heavy-duty 2 kV to 25 kV trailing cable for AC mining equipment where severe service and maximum safety are required. Suitable for continuous miners, drills, cutters, loading machines, shuttle cars, pumps, shovels, draglines, dredges, conveyors and other mobile equipment. Designed for underground and surface mining power distribution where frequent relocation, flexibility, toughness, grounding conductors and a ground-check conductor are required.

CONSTRUCTION

Component	Description
Phase, grounding and ground-check conductors	Soft or annealed tinned copper, rope-lay flexible stranding according to ASTM B172
Conductor shield	Helically applied semi-conductive tape
Insulation	Heat-, moisture- and ozone-resistant thermosetting ethylene-propylene rubber (EPR)
Insulation shield	Overlapped semi-conductive tape with composite fibre/copper braid shield; tinned copper wires and coloured phase-identification fibres
Core assembly	Phase, grounding and ground-check conductors cabled with fillers and binder tape
Ground-check identification	Yellow polypropylene insulation
CPE jacket option	Heavy- or extra-heavy-duty chlorinated polyethylene over fibrous reinforcement, black; other colours available
TPU jacket option	Extra-heavy-duty, high-torsion-resistant, integral-filled thermoplastic polyurethane, black; other colours available

CHARACTERISTICS

- Heavy-duty three-conductor portable mining power cable with integrated ground check.
- Suitable for severe trailing service and frequent relocation.
- EPR insulation provides thermal stability and electrical performance.
- CPE or TPU jacket options provide oil, abrasion, tear, ozone and weather resistance.
- Minimum bending radius: 6 x overall diameter.
- Maximum continuous conductor operating temperature: +90 deg C.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage range	kV	2; 5; 8; 15; 25
Primary standard		ICEA S-75-381 / NEMA WC 58
Conductor standards		ASTM B 172; ASTM B 33
Canadian standard		CAN/CSA-C22.2 No. 96
Minimum bending radius		6 x overall diameter
Maximum conductor temperature	°C	+90

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity.

Construction cores x AWG/kcmil	Strands	Grounding / ground check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
SHD-GC 2 kV							
3 x 6	133	10 / 10	0.070 / 1.8	0.155 / 3.9	1.29 / 32.8	1069 / 1590	93
3 x 4	259	8 / 10	0.070 / 1.8	0.155 / 3.9	1.40 / 35.6	1295 / 1927	122
3 x 2	259	6 / 10	0.070 / 1.8	0.170 / 4.3	1.59 / 40.4	1778 / 2645	159
3 x 1	259	5 / 8	0.080 / 2.0	0.190 / 4.8	1.76 / 44.7	2163 / 3218	184
3 x 1/0	266	4 / 8	0.080 / 2.0	0.190 / 4.8	1.86 / 47.2	2508 / 3731	211
3 x 2/0	323	3 / 8	0.080 / 2.0	0.205 / 5.2	2.00 / 50.8	3001 / 4465	243
3 x 3/0	418	2 / 8	0.080 / 2.0	0.205 / 5.2	2.13 / 54.1	3470 / 5163	279
3 x 4/0	532	1 / 8	0.080 / 2.0	0.220 / 5.6	2.31 / 58.7	4192 / 6237	321
3 x 250	627	1/0 / 6	0.095 / 2.4	0.220 / 5.6	2.51 / 63.8	5213 / 7756	355
3 x 350	888	2/0 / 6	0.095 / 2.4	0.235 / 6.0	2.81 / 71.4	6824 / 10153	435
3 x 500	1221	4/0 / 6	0.095 / 2.4	0.265 / 6.7	3.19 / 81.0	9014 / 13411	536
NOTES							

- Dimensions and weights are shown in the Word specification's imperial and metric units.

- Ampacity values are reproduced from the corresponding voltage table in the Word specification.

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity.

Construction cores x AWG/kcmil	Strands	Grounding / ground check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
SHD-GC 5 kV							
3 x 6	133	10 / 8	0.110 / 2.8	0.185 / 4.7	1.56 / 39.6	1560 / 2322	93
3 x 4	259	8 / 8	0.110 / 2.8	0.185 / 4.7	1.68 / 42.7	1895 / 2820	122
3 x 2	259	6 / 8	0.110 / 2.8	0.205 / 5.2	1.87 / 47.5	2445 / 3639	159
3 x 1	259	5 / 8	0.110 / 2.8	0.205 / 5.2	1.95 / 49.5	2800 / 4167	184
3 x 1/0	266	4 / 8	0.110 / 2.8	0.220 / 5.6	2.08 / 52.8	3230 / 4807	211
3 x 2/0	329	3 / 8	0.110 / 2.8	0.220 / 5.6	2.20 / 55.9	3800 / 5655	243
3 x 3/0	418	2 / 8	0.110 / 2.8	0.235 / 6.0	2.36 / 59.9	4475 / 6660	279
3 x 4/0	532	1 / 8	0.110 / 2.8	0.235 / 6.0	2.50 / 63.5	5265 / 7835	321
3 x 250	627	1/0 / 6	0.120 / 3.0	0.250 / 6.4	2.69 / 68.3	6105 / 9085	355
3 x 300	741	1/0 / 6	0.120 / 3.0	0.250 / 6.4	2.81 / 71.4	6875 / 10231	398
3 x 350	888	2/0 / 6	0.120 / 3.0	0.265 / 6.7	2.95 / 74.9	7795 / 11600	435
3 x 500	1221	4/0 / 6	0.120 / 3.0	0.280 / 7.1	3.31 / 84.1	10415 / 15499	536
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TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity.

Construction cores x AWG/kcmil	Strands	Grounding / ground check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/ft / kg/km	Ampacity A
SHD-GC 8 kV							
3 x 4	259	8 / 8	0.150 / 3.8	0.205 / 5.2	1.94 / 49.3	2308 / 3594	122
3 x 2	259	6 / 8	0.150 / 3.8	0.220 / 5.6	2.12 / 53.8	2920 / 4554	159
3 x 1	329	5 / 8	0.150 / 3.8	0.220 / 5.6	2.21 / 56.1	3292 / 5104	184
3 x 1/0	259	4 / 8	0.150 / 3.8	0.220 / 5.6	2.32 / 58.9	3675 / 5700	211
3 x 2/0	329	3 / 8	0.150 / 3.8	0.235 / 6.0	2.46 / 62.5	4304 / 6593	243
3 x 3/0	413	2 / 8	0.150 / 3.8	0.250 / 6.4	2.62 / 66.5	5200 / 7738	279
3 x 4/0	532	1 / 8	0.150 / 3.8	0.250 / 6.4	2.75 / 69.8	5840 / 8713	321
3 x 250	608	1/0 / 6	0.150 / 3.8	0.250 / 6.4	2.89 / 73.4	6774 / 9948	355
3 x 300	741	1/0 / 6	0.150 / 3.8	0.265 / 6.7	3.04 / 77.2	7423 / 11384	398
3 x 350	888	2/0 / 6	0.150 / 3.8	0.280 / 7.1	3.21 / 81.3	8543 / 12739	435
3 x 500	1221	4/0 / 6	0.150 / 3.8	0.295 / 7.5	3.56 / 90.4	11260 / 16757	536

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TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity.

Construction cores x AWG/kcmil	Strands	Grounding / ground check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
SHD-GC 15 kV							
3 x 2	259	6 / 8	0.210 / 5.3	0.235 / 6.0	2.41 / 61.2	3145 / 4679	164
3 x 1	259	5 / 8	0.210 / 5.3	0.235 / 6.0	2.52 / 64.0	3567 / 5307	187
3 x 1/0	266	4 / 8	0.210 / 5.3	0.250 / 6.4	2.64 / 67.0	3976 / 5916	215
3 x 2/0	323	3 / 8	0.210 / 5.3	0.250 / 6.4	2.73 / 69.3	4526 / 6734	246
3 x 3/0	418	2 / 8	0.210 / 5.3	0.265 / 6.7	2.90 / 73.7	5231 / 7783	283
3 x 4/0	532	1 / 8	0.210 / 5.3	0.265 / 6.7	3.05 / 77.5	6033 / 8976	325
SHD-GC 25 kV							
3 x 1	259	5 / 8	0.260 / 6.6	0.265 / 6.7	2.95 / 74.9	5290 / 7872	191
3 x 1/0	259	4 / 8	0.260 / 6.6	0.265 / 6.7	3.05 / 77.5	5800 / 8631	218
3 x 2/0	329	3 / 8	0.260 / 6.6	0.280 / 7.1	3.20 / 81.3	6515 / 9695	249
3 x 3/0	413	2 / 8	0.260 / 6.6	0.280 / 7.1	3.33 / 84.6	7215 / 10737	286
3 x 4/0	532	1 / 8	0.260 / 6.6	0.295 / 7.5	3.50 / 88.9	8250 / 12277	327

NOTES

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CERTIFICATIONS

