



TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TYPE SHD-PCG 3C

2000 V underground mining cable - 3C CPE



APPLICATION

Heavy-duty Type SHD-PCG 3/C portable power cable for longwall shearers, continuous miners, roof bolters, pumps, drills, conveyors and other mobile mining equipment. The cable is designed for circuits not exceeding 2,000 V and includes grounding conductors, a yellow ground check conductor and metallic shielding. It is also suitable for shallow water submersion.

CONSTRUCTION

Component	Description
Power conductors	Flexible tinned copper conductors, 6 AWG to 500 kcmil
Grounding conductors	Flexible tinned copper grounding conductors
Insulation	90 deg C ethylene-propylene rubber (EPR)
Insulation shielding	Tinned copper and colour-coded nylon braid over each power conductor
Ground check conductor	Flexible tinned copper with yellow polypropylene insulation; size varies by cable size
Separator tape	Non-conducting separator tape and pure integral fill for torsion resistance
Outer jacket	Reinforced mold-cured thermosetting CPE jacket; extra-heavy-duty black CPE is standard
Service feature	Suitable for shallow water submersion
Jacket marking	Permanent cable identification marking

CHARACTERISTICS

- Heavy-duty Type SHD-PCG round portable power cable for underground mining service.
- 90 deg C EPR insulation provides stable electrical and thermal performance.
- Metallic shielding and colour-coded nylon braid are provided over each power conductor.
- A yellow ground check conductor and grounding conductors support monitored mining circuits.
- Reinforced mold-cured CPE jacket is designed for demanding portable mining service and shallow-water use.
- Maximum continuous conductor operating temperature: +90 deg C.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage	V	Up to 2000
Configuration		Round 3C with grounding and ground check conductors
Maximum continuous conductor temperature	°C	+90
Primary cable standard		ICEA S-75-381 / NEMA WC-58
Conductor standards		ASTM B-172; ASTM B-33
Approvals and markings		P-7K-184-MSHA; CSA SHD-PCG FT4

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

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

Size AWG/kcmil	Strands (power / ground)	Insulation / Jacket mil	Nominal outside dimension in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE SHD-PCG 3C - UNDERGROUND MINING					
6 + 10 ground	133 power; 49 ground	70 / 155	1.29 / 32.8	1160 / 1726	93
4 + 8 ground	259 power; 133 ground	70 / 155	1.40 / 35.6	1490 / 2217	122
2 + 6 ground	259 power; 133 ground	70 / 170	1.59 / 40.4	2000 / 2976	159
1 + 5 ground	259 power; 133 ground	80 / 190	1.76 / 44.7	2450 / 3646	184
1/0 + 4 ground	266 power; 259 ground	80 / 190	1.86 / 47.2	2840 / 4226	211
2/0 + 3 ground	323 power; 259 ground	80 / 205	2.00 / 50.8	3400 / 5059	243
3/0 + 2 ground	418 power; 259 ground	80 / 205	2.13 / 54.1	3680 / 5476	279
4/0 + 1 ground	532 power; 259 ground	80 / 220	2.31 / 58.7	4860 / 7231	321
250 + 1/0 ground	627 power; 266 ground	95 / 220	2.51 / 63.8	5950 / 8854	355
350 + 2/0 ground	888 power; 323 ground	95 / 235	2.81 / 71.4	7400 / 11011	435
500 + 4/0 ground	1221 power; 532 ground	95 / 265	3.19 / 81.0	10100 / 15029	536

NOTES

- Imperial values are reproduced from the supplied specification table.
 - Ampacity is based on continuous duty at 90 deg C conductor temperature.
- Tolerance: +/- 5% of nominal outside diameter.
 - Final cable selection must consider installation method, ambient conditions and applicable regulations.

CERTIFICATIONS



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