



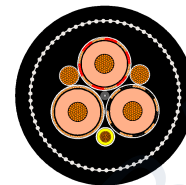
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TYPE SHD-CGC 3C

5000 V underground mining cable - 3C CPE



APPLICATION

Heavy-duty high-voltage Type SHD-CGC 3/C portable power cable for longwall shearers, continuous miners, conveyors, pumps and other mobile mining equipment. The cable is designed for circuits not exceeding 5,000 V and includes grounding conductors, a yellow ground check conductor and metallic shielding overall.

CONSTRUCTION

Component	Description
Power conductors	Flexible tinned copper conductors, 2/0 to 350 AWG/kcmil
Grounding conductors	Flexible tinned copper grounding conductors, 5 to 1 AWG
Insulation	90 deg C ethylene-propylene rubber (EPR)
Insulation shielding	Tinned copper and colour-coded nylon braid over each power conductor
Ground check conductor	16 AWG flexible tinned copper with yellow polypropylene insulation
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
Strand shield	Semi-conducting layer
Jacket marking	Permanent cable identification marking

CHARACTERISTICS

- Heavy-duty Type SHD-CGC round portable power cable for underground longwall and continuous-miner 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.
- Maximum continuous conductor operating temperature: +90 deg C.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage	V	Up to 5000
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; Pennsylvania DEP flame-resistant acceptance

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-CGC 3C - UNDERGROUND MINING					
2/0 + 5 ground	323 power; 133 ground	110 / 220	2.20 / 55.9	3716 / 5529	243
3/0 + 4 ground	418 power; 259 ground	110 / 235	2.36 / 59.9	4130 / 6146	279
4/0 + 3 ground	532 power; 259 ground	110 / 235	2.50 / 63.5	5190 / 7723	321
350 + 1 ground	888 power; 259 ground	120 / 265	2.95 / 74.9	7571 / 11265	435

NOTES

- Imperial values are reproduced from the supplied specification table.
 - Ampacity is based on continuous duty at 90 deg C conductor temperature.
- Tolerance: +8% / -5% of nominal outside diameter.
 - Final cable selection must consider installation method, ambient conditions and applicable regulations.

CERTIFICATIONS

