



TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrial cable

# TYPE SHD FLAT 3C

2000 V underground mining cable - flat 3C CPE



### APPLICATION

Heavy-duty Type SHD flat 3/C portable power cable for underground continuous miners and other mobile mining equipment. The cable is designed for circuits not exceeding 2,000 V and includes grounding conductors and metallic shielding over each power conductor. Flexible tinned copper, 90 deg C EPR insulation and a mold-cured thermoset jacket support demanding portable service.

### CONSTRUCTION

| Component            | Description                                                              |
|----------------------|--------------------------------------------------------------------------|
| Power conductors     | Flexible tinned copper conductors, 2/0 AWG                               |
| Grounding conductors | Flexible tinned copper grounding conductors, 3 AWG                       |
| Insulation           | 90 deg C ethylene-propylene rubber (EPR)                                 |
| Insulation shielding | Tinned copper and textile braid over each power conductor                |
| Separator tape       | Separator tape applied over the conductor assembly                       |
| Outer jacket         | Mold-cured thermoset jacket; extra-heavy-duty black neoprene is standard |
| Jacket marking       | Permanent cable identification marking                                   |

### CHARACTERISTICS

- Heavy-duty Type SHD flat portable power cable for underground continuous-miner service.
- 90 deg C EPR insulation provides stable electrical and thermal performance.
- Metallic shielding is provided over each power conductor.
- Grounding conductors support mining equipment circuits requiring grounding conductors.
- Mold-cured thermoset 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 2000                                              |
| Configuration                            |      | Flat 3C with grounding 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-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 in / mm | Nominal overall dimension(s) in / mm | Weight lb/kft / kg/km | Ampacity A |
|---------------------------------------|--------------------------|--------------------|--------------------------------------|-----------------------|------------|
| TYPE SHD FLAT 3C - UNDERGROUND MINING |                          |                    |                                      |                       |            |
| 2/0 power + 3 ground                  | 329 / 7x47; 204 / 6x34   | 0.080 / 2.03       | 1.205 x 2.970 / 30.6 x 75.4          | 3600 / 5357           | 243        |

## NOTES

- Imperial values are reproduced from the supplied specification table.
  - Ampacity is based on continuous duty at 90 deg C conductor temperature.
- Tolerances: +/- 0.050 in minor dimension and +/- 0.080 in major dimension.
  - Final cable selection must consider installation method, ambient conditions and applicable regulations.

## CERTIFICATIONS

