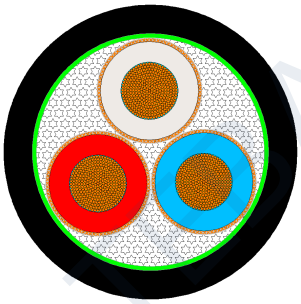
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

# MINE FEEDER TYPE 1 SCREENED MACHINE CABLE

### 1.1/1.1 kV PVC insulated and covered screened cable to AS/NZS 1972



## APPLICATION

Screened cable for wiring mobile equipment such as continuous miners, shuttle cars, road headers and personnel transport systems. Used for interconnection of equipment including control boxes and motors. Further mechanical protection is required for external non-protected installations.

## CONSTRUCTION

| Parameter | Value |
|---|---|
| Conductor | Tinned annealed copper conductor |
| Insulation | Heat resistant V-90 PVC |
| Screen | Tinned copper wire and polyester yarn composite braid screen |
| Screening option | Cores can be individually or collectively screened |
| Cover | Heat resistant 5V-90 PVC |

## CABLE CHARACTERISTICS

| Parameter | Value |
|---|---|
| Standard | AS/NZS 1972 |
| Rated voltage | 1.1/1.1 kV |
| Maximum continuous operating temperature | +90 deg C |
| Minimum installation temperature | 0 deg C |
| Installation conditions | In duct machines; further mechanical protection required |
| Oil / water performance | Very good splash resistance and very good flexibility |
| Flame performance | C3 |

## TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

| 1.1/1.1 kV TYPE 1 - INDIVIDUALLY SCREENED - ELECTRICAL DATA | | | | | | | |
|---|---|---|---|---|---|---|---|
| Area mm2 | Cores | Cond. dia. mm | Insul. thick. mm | AC res. 90 deg C oh/km | React. 50 Hz oh/km | Volt drop mV/A.m | Max DC res. combined oh/km |
| 1.5 | 2 | 1.6 | 0.8 | 17.5 | 0.120 | 30.3 | 13.7 |
| 1.5 | 3 | 1.6 | 0.8 | 17.5 | 0.120 | 30.3 | 13.7 |
| 10 | 3 | 4.6 | 1.0 | 2.58 | 0.0923 | 4.47 | 6.06 |
| 16 | 3 | 6.2 | 1.0 | 1.58 | 0.0854 | 2.74 | 3.72 |
| 1.5 | 4 | 1.6 | 0.8 | 17.5 | 0.128 | 30.3 | 13.7 |
| 10 | 4 | 4.6 | 1.0 | 2.58 | 0.0998 | 4.47 | 6.06 |
| 16 | 4 | 6.2 | 1.0 | 1.58 | 0.0929 | 2.74 | 3.72 |

| 1.1/1.1 kV TYPE 1 - INDIVIDUALLY SCREENED - DIMENSIONS AND MASS | | | | |
|---|---|---|---|---|
| Area mm2 | Cores | Covering thick. mm | Nom. dia. mm | Approx mass kg/100m |
| 1.5 | 2 | 0.8 | 10.2 | 15 |
| 1.5 | 3 | 0.8 | 10.8 | 20 |
| 10 | 3 | 1.0 | 18.1 | 60 |
| 16 | 3 | 1.3 | 22.0 | 85 |
| 1.5 | 4 | 0.8 | 11.9 | 25 |
| 10 | 4 | 1.3 | 20.5 | 75 |
| 16 | 4 | 1.3 | 24.3 | 110 |

| 1.1/1.1 kV TYPE 1 - COLLECTIVELY SCREENED - ELECTRICAL DATA | | | | | | | |
|---|---|---|---|---|---|---|---|
| Area mm2 | Cores | Cond. dia. mm | Insul. thick. mm | AC res. 90 deg C oh/km | React. 50 Hz oh/km | Volt drop mV/A.m | Max DC res. combined oh/km |
| 1.5 | 2 | 1.6 | 0.8 | 17.5 | 0.106 | 30.3 | 13.7 |
| 1.5 | 3 | 1.6 | 0.8 | 17.5 | 0.106 | 30.3 | 13.7 |
| 1.5 | 4 | 1.6 | 0.8 | 17.5 | 0.114 | 30.3 | 13.7 |
| 1.5 | 6 | 1.6 | 0.8 | 17.5 | 0.123 | 30.3 | 13.7 |
| 1.5 | 16 | 1.6 | 0.8 | 17.5 | 0.152 | 30.3 | 13.7 |
| 1.5 | 30 | 1.6 | 0.8 | 17.5 | 0.169 | 30.3 | 13.7 |

| 1.1/1.1 kV TYPE 1 - COLLECTIVELY SCREENED - DIMENSIONS AND MASS | | | | |
|---|---|---|---|---|
| Area mm2 | Cores | Covering thick. mm | Nom. dia. mm | Approx mass kg/100m |
| 1.5 | 2 | 0.8 | 9.38 | 15 |
| 1.5 | 3 | 0.8 | 9.88 | 15 |
| 1.5 | 4 | 0.8 | 10.7 | 20 |
| 1.5 | 6 | 1.0 | 12.8 | 25 |
| 1.5 | 16 | 1.3 | 18.8 | 55 |
| 1.5 | 30 | 1.5 | 24.7 | 90 |

Notes: Cables rated in excess of 20 amps are electrically symmetrical.

## CERTIFICATIONS