



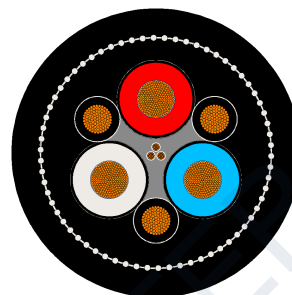
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrialcable

# TYPE 245UF ULTRA FLEXIBLE CABLE

1.1 kV to 3.3 kV ultra flexible cable to AS/NZS 1802



## APPLICATION

Designed to operate within the tight bending radii experienced with cable chains used on longwall shearers. Semiconductive screened power cores with three earth cores and three extensible pilots for modern machine monitoring, control circuits and demanding trailing applications.

## CONSTRUCTION

| Parameter           | Value                                                                                   |
|---------------------|-----------------------------------------------------------------------------------------|
| Core                | Tinned copper, three phase cores, three earth cores plus three central pilots           |
| Flexibility         | Very flexible ultra-flexible construction                                               |
| Conductor separator | Semi-conductive screen for 3.3 kV                                                       |
| Insulation          | EPR compound, R-EP-90, with durably printed core numbers for phase identification       |
| Screen              | Semi-conductive elastomer screen                                                        |
| Pilot               | Three pilots in the centre of the cable; maximum DC resistance of 3 ohm/100m            |
| Earth               | Three semi-conductive elastomer covered flexible earth cores located in the interstices |
| Sheath              | Open weave reinforcement under heavy duty HD-85-PCP elastomer sheath                    |

## CABLE CHARACTERISTICS

| Parameter                                | Value                                                                 |
|------------------------------------------|-----------------------------------------------------------------------|
| Standard                                 | AS/NZS 1802                                                           |
| Voltage range                            | 1.1 kV to 3.3 kV                                                      |
| Maximum continuous operating temperature | +90 deg C                                                             |
| Minimum installation temperature         | -25 deg C                                                             |
| Installation conditions                  | Cable chains on longwall shearer equipment and mobile mining machines |
| Oil / water performance                  | Excellent immersion performance and very good flexibility             |
| Flame performance                        | C1                                                                    |

TECHNICAL DATA

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

| TYPE 245.1 UF - 1.1 kV |             |                     |              |                  |                 |                     |               |              |              |                  |                 |
|------------------------|-------------|---------------------|--------------|------------------|-----------------|---------------------|---------------|--------------|--------------|------------------|-----------------|
| Part                   | Area<br>mm2 | Cond.<br>Dia.<br>mm | Insul.<br>mm | AC Res.<br>oh/km | React.<br>oh/km | Volt Drop<br>mV/A.m | Cap.<br>uF/km | Earth<br>mm2 | Sheath<br>mm | Cable Dia.<br>mm | Mass<br>kg/100m |
| 50-245-1 UF            | 50          | 9.8                 | 1.7          | 0.523            | 0.114           | 0.927               | 0.544         | 8            | 4.8          | 49.7             | 425             |
| 70-245-1 UF            | 70          | 12.0                | 1.8          | 0.346            | 0.107           | 0.627               | 0.614         | 12.5         | 5.1          | 54.9             | 555             |
| 95-245-1 UF            | 95          | 13.8                | 2.0          | 0.271            | 0.103           | 0.502               | 0.630         | 12.5         | 5.6          | 60.3             | 675             |
| 120-245-1 UF           | 120         | 15.9                | 2.1          | 0.210            | 0.0988          | 0.402               | 0.684         | 13.75        | 6.0          | 65.7             | 845             |
| 150-245-1 UF           | 150         | 17.9                | 2.3          | 0.166            | 0.0956          | 0.332               | 0.698         | 17           | 6.3          | 70.8             | 1010            |

| TYPE 245.3 UF - 3.3 kV |             |                     |              |                  |                 |                     |               |              |              |                  |                 |
|------------------------|-------------|---------------------|--------------|------------------|-----------------|---------------------|---------------|--------------|--------------|------------------|-----------------|
| Part                   | Area<br>mm2 | Cond.<br>Dia.<br>mm | Insul.<br>mm | AC Res.<br>oh/km | React.<br>oh/km | Volt Drop<br>mV/A.m | Cap.<br>uF/km | Earth<br>mm2 | Sheath<br>mm | Cable Dia.<br>mm | Mass<br>kg/100m |
| 50-245-3 UF            | 50          | 9.8                 | 3.0          | 0.523            | 0.121           | 0.930               | 0.359         | 8            | 5.7          | 57.4             | 525             |
| 70-245-3 UF            | 70          | 12.0                | 3.0          | 0.346            | 0.113           | 0.630               | 0.418         | 12.5         | 6.0          | 62.3             | 660             |
| 95-245-3 UF            | 95          | 13.8                | 3.0          | 0.271            | 0.108           | 0.505               | 0.467         | 16           | 6.4          | 66.5             | 780             |
| 120-245-3 UF           | 120         | 15.9                | 3.0          | 0.210            | 0.103           | 0.405               | 0.525         | 20           | 6.7          | 71.2             | 950             |
| 150-245-3 UF           | 150         | 17.9                | 3.0          | 0.166            | 0.0986          | 0.334               | 0.578         | 27           | 7.0          | 75.6             | 1120            |

CERTIFICATIONS

