

# TORSIONFLEX® MINE-HZ

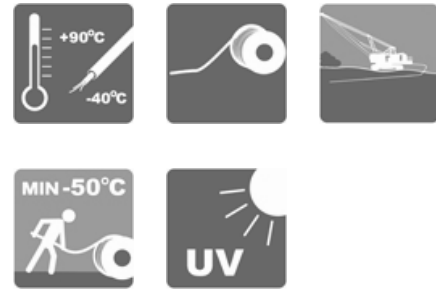
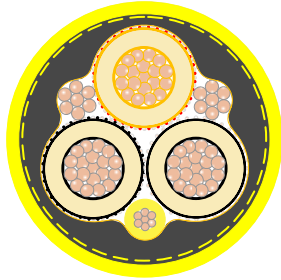
## SHD-GC 8kV NEO

CSA C22.2 No 96-13



Round portable power cable

Mining grade



### CONSTRUCTION

|                               |  |
|-------------------------------|--|
| <b>Conductors</b>             | Annealed flexible stranded tin coated copper in accordance with ASTM B-33, ASTM B 172, C22.2 No. 96-13 sec. 5.3.1 Tab. 7.                          |
| <b>Conductor shield</b>       | Semi-conductive tape + semi-conductive layer over the conductor.   |
| <b>Insulation</b>             | Ethylene-propylene rubber (EPR).   |
| <b>Insulation shield</b>      | Non-conducting tape + Composite tinned copper/polyamide braid. Covering minimum 60%.   |
| <b>Circuit identification</b> | The polyamide in the shielding braid is coloured black, red, blue  |
| <b>Grounding</b>              | Annealed tin coated copper acc. CSA C22.2 No 96-13 sec. 5.3.2 Tab.7  |
| <b>Ground check</b>           | Annealed tin coated copper acc. CSA C22.2 No 96-13 sec. 5.3.3 Tab.4<br>Colour of insulation: yellow  |
| <b>Assembly</b>               | Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core.                                   |
| <b>Separator</b>              | Rubberized cotton tape applied over cable core.  |
| <b>Outer jacket</b>           | Extra heavy duty, high torsion resistant, integral-filled, reinforced poly-chloroprene thermosetting jacket, CSA C22.2 No 96-13 sec.5.3.9 Tab. 13. |
| <b>Colour of outer jacket</b> | Yellow   |
| <b>Minimum bending radius</b> | Eight times overall diameter of the cable.   |

### FEATURES

- Excellent flexibility
- Highly ozone, sun, weather and flame resistant
- Rated and flexible at -40°C. TPU jackets suitable for -50°C.
- Excellent impact and abrasion resistant
- Oil and heat resistant
- Ink jet permanent printing for easy identification

### APPLICATIONS

- Heavy mobile equipment such as draglines, shovels, dredges, drills , other track equipment
- Other industrial, mining applications

TELE-FONIKA Kable S.A.

[www.tfkable.com](http://www.tfkable.com)

SHD-GC NEO CSA 21.03.2016/TW

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## SHD-GC 8kV NEO

CSA C22.2 No 96-13



|                                      |   |
|--------------------------------------|---|
| <b>Standard length cable packing</b> | 500m drums. Other forms of packaging are available on request |
|--------------------------------------|---|

| Selection Data       |                           |                              |                          |                     |           |                |       |              |      |                                   |
|----------------------|---------------------------|------------------------------|--------------------------|---------------------|-----------|----------------|-------|--------------|------|-----------------------------------|
| Power Conductor Size | Power Conductor Stranding | Nominal Insulation Thickness | Nominal Jacket Thickness | Grounding conductor |           | Approx. Weight |       | Approx. O.D. |      | Maximum Permissible Tensile Force |
|                      |                           |                              |                          | Size                | Stranding |                |       |              |      |                                   |
| AWG                  | N x mm                    | Inches                       | Inches                   | AWG                 | N x mm    | lbs/1000 ft    | kg/km | Inches       | mm   | N                                 |
| 1/0                  | 266 19x14                 | 0,150                        | 0,220                    | 5                   | 259 7x37  | 3404           | 5065  | 2,18         | 55,3 | 2400                              |

| Electrical parameters            |                                     |  |   |                            |                                       |  |                                       |
|----------------------------------|-------------------------------------|--|---|----------------------------|---------------------------------------|--|---------------------------------------|
| Power - Grounding Conductor Size | Power Conductor Resistance at 25 °C | Grounding Conductor Resistance at 25°C | Ground-check Conductor Resistance at 25°C | Inductance per unit length | Operating Capacitance per unit length | Permissible short-circuit current (1s) (2) | Ampacity (1) 40°C Ambient Temperature |
| AWG                              | Ω/1000Ft                            | Ω/1000Ft                               | Ω/1000Ft                                  | mH/1000Ft                  | μF/1000Ft                             | kA   | A                                     |
| 1/0                              | 0,109                               | 0,346                                  | 0,679                                     | 0,113                      | 0,10                                  | 7,65                                       | 211                                   |

(1) Ampacity - Based on continuous duty at 90°C conductor temperature

(2) Short-circuit current (1s) - Based on conductor temperature from 90 °C up to 250 °C

### Standard print legend:

TELE-FONIKA (VOLTAGE)(SIZE) TYPE SHD-GC FT1 FT5 (-50°C) +90°C (year of production)

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