



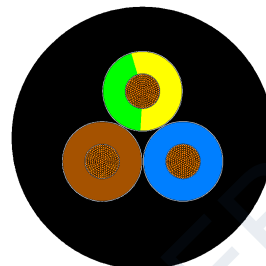
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrialcable

# H07RN-8-F FLEXIBLE RUBBER CABLE

450/750 V EN 50525-2-21 flexible rubber cable



### APPLICATION

Flexible rubber cable for dry, damp or wet environments and workshops with explosive atmospheres. It can be immersed in fresh water up to 10 m depth and used as an energy supply cable for submersed pumps. Suitable for connections subject to moderate mechanical stress, including industrial and agricultural workshop apparatus, large boilers, heater plates, electric tools, portable motors and generators on building sites. Not intended for underwater power transmission, waterways or locations where mechanical damage may cause hazard.

### CONSTRUCTION

| Parameter           | Value                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conductor           | Class 5 flexible copper conductor                                                                                                                                                                                             |
| Insulation          | Rubber                                                                                                                                                                                                                        |
| Sheath              | Rubber                                                                                                                                                                                                                        |
| Core identification | 1 core: Black; 2 core: Blue, Brown; 3 core: Green/Yellow, Blue, Brown; 4 core: Green/Yellow, Blue, Brown, Grey; 5 core: Green/Yellow, Blue, Brown, Black, Grey; 6 cores and above: Black with white numbers plus Green/Yellow |
| Sheath colour       | Black                                                                                                                                                                                                                         |

### OPERATING CHARACTERISTICS

| Parameter                       | Value                  |
|---------------------------------|------------------------|
| Rated voltage U/U <sub>0</sub>  | 450/750 V              |
| Temperature - fixed             | -40 deg C to +90 deg C |
| Temperature - flexed            | -15 deg C to +90 deg C |
| Minimum bending radius - fixed  | 4 x overall diameter   |
| Minimum bending radius - flexed | 6 x overall diameter   |

### STANDARDS AND PERFORMANCE

- EN 50525-2-21
- HD 22.4 S3
- CEI 20-19 Part 16
- EN 60228 and VDE 0295
- Flame retardant according to IEC/EN 60332-1-2
- Compliant with EN 50575 Construction Products Regulation
- Low Voltage Directive 2014/35/EU
- RoHS Directive 2015/65/EU and REACH Regulation EC 1907/2006

# TECHNICAL DATA

Nominal dimensional data. Source ordering codes and brand-specific references have been omitted.

| Dimensions |          |                       |                  |                  |              |
|------------|----------|-----------------------|------------------|------------------|--------------|
| Cores      | Area mm2 | Conductor diameter mm | Min. diameter mm | Max. diameter mm | Weight kg/km |
| 1          | 1.5      | 1.5                   | 5.7              | 7.1              | 50           |
| 1          | 2.5      | 1.9                   | 6.3              | 7.9              | 70           |
| 1          | 4        | 2.4                   | 7.2              | 9.0              | 100          |
| 1          | 6        | 3.0                   | 7.9              | 9.8              | 130          |
| 1          | 10       | 3.9                   | 9.5              | 11.9             | 200          |
| 1          | 16       | 4.9                   | 10.8             | 13.4             | 280          |
| 1          | 25       | 6.1                   | 12.7             | 15.8             | 400          |
| 1          | 35       | 7.3                   | 14.3             | 17.9             | 510          |
| 1          | 50       | 8.9                   | 16.5             | 20.6             | 710          |
| 3          | 1.5      | 1.5                   | 9.2              | 11.9             | 150          |
| 3          | 2.5      | 1.9                   | 10.9             | 14.0             | 210          |
| 3          | 4        | 2.4                   | 12.7             | 16.2             | 280          |
| 3          | 6        | 3.0                   | 14.1             | 18.0             | 370          |
| 3          | 10       | 3.9                   | 19.1             | 24.2             | 660          |
| 3          | 16       | 4.9                   | 21.8             | 27.6             | 920          |
| 3          | 25       | 6.1                   | 26.1             | 33.0             | 1360         |
| 3          | 35       | 7.3                   | 29.3             | 37.1             | 1820         |
| 3          | 50       | 8.9                   | 34.1             | 42.9             | 2500         |
| 4          | 1        | 1.2                   | 9.2              | 11.9             | 150          |
| 4          | 1.5      | 1.5                   | 10.2             | 13.1             | 190          |
| 4          | 2.5      | 1.9                   | 12.1             | 15.5             | 260          |
| 4          | 4        | 2.4                   | 14.0             | 17.9             | 350          |
| 4          | 6        | 3.0                   | 15.7             | 20.0             | 460          |
| 4          | 10       | 3.9                   | 20.9             | 26.5             | 830          |
| 4          | 16       | 4.9                   | 23.8             | 30.1             | 1190         |
| 4          | 25       | 6.1                   | 28.9             | 36.6             | 1720         |
| 4          | 35       | 7.3                   | 32.5             | 41.1             | 2260         |
| 7          | 1.5      | 1.5                   | 15.0             | 19.0             | 340          |
| 7          | 2.5      | 1.9                   | 17.5             | 21.5             | 500          |
| 12         | 1.5      | 1.5                   | 17.6             | 22.4             | 530          |
| 12         | 2.5      | 1.9                   | 20.6             | 26.2             | 720          |
| 18         | 1.5      | 1.5                   | 20.7             | 26.3             | 700          |
| 24         | 1.5      | 1.5                   | 24.3             | 30.7             | 960          |
| 36         | 1.5      | 1.5                   | 27.8             | 35.2             | 1360         |

Values are nominal. Cable dimensions may vary due to manufacturing tolerances.

## CERTIFICATIONS



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