



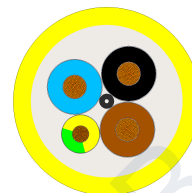
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrialcable

# (N)SHÖU

Flexible rubber cable for general use



### APPLICATION

For use in open-cast mining, quarries and similar plants. Also suitable for laying alongside conveyor belts and on material handling equipment; suitable for tunneling sites and similar applications.

### CABLE STRUCTURE

| Component    | Description                                                                |
|--------------|----------------------------------------------------------------------------|
| Conductor    | Electrolytic, stranded, plain copper wire, DIN VDE 0295 class 5            |
| Insulation   | All cores are insulated with 3GI3 compound                                 |
| Lay up       | All cores laid up in contact with each other and interstitial ground cores |
| Inner sheath | Special extruded elastomeric compound                                      |
| Outer sheath | Heavy-duty elastomer outer sheath 5GM5, yellow or black                    |

### CHARACTERISTICS

- Ozone resistant.
- Cold resistant.
- Tear resistant.
- UV resistant.
- Weather resistant.
- Moisture resistant.
- Explosion-proof application range.
- Oil resistant.

### OPERATING CHARACTERISTICS

| Parameter                   | Value                            |
|-----------------------------|----------------------------------|
| Rated voltage               | 0.6/1 kV                         |
| Max. operating voltage AC   | 0.7/1.2 kV                       |
| Max. operating voltage DC   | 0.9/1.8 kV                       |
| AC test voltage             | 3 kV                             |
| Min. bending radius         | According to DIN VDE 0298 part 3 |
| Current carrying capacity   | According to DIN VDE 0298 part 4 |
| Working temperature, fixed  | -40 °C to +90 °C                 |
| Working temperature, mobile | -25 °C to +90 °C                 |
| Max. tensile load of cable  | 15 N/mm <sup>2</sup>             |

### PRODUCTION AND TEST STANDARDS

| Parameter            | Value                                           |
|----------------------|-------------------------------------------------|
| Construction         | DIN VDE 0250-812                                |
| General requirements | DIN VDE 0250-1                                  |
| Guide to use         | DIN VDE 0298-3                                  |
| Electrical tests     | DIN VDE 0472-501, 503, 508                      |
| Non-electrical tests | DIN VDE 0472-401, 402, 602, 303, 615            |
| Under fire tests     | DIN VDE 0472-803, 804                           |
| Flame retardant      | VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 |
| Oil resistant        | HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1       |

# TECHNICAL DATA

## DIMENSIONS AND WEIGHTS

Values are technical parameters only. Cable dimensions may vary due to manufacturing tolerances.

| Cross section mm <sup>2</sup> | Overall diameter min - max mm | Approx. weight kg/km |
|-------------------------------|-------------------------------|----------------------|
| 3 x 1.5                       | 9.7 - 10.3                    | 145                  |
| 3 x 2.5                       | 11.2 - 12.8                   | 220                  |
| 3 x 4                         | 12.5 - 14.1                   | 300                  |
| 3 x 6                         | 13.2 - 15.0                   | 380                  |
| 3 x 10                        | 16.6 - 18.6                   | 590                  |
| 3 x 16                        | 19.5 - 21.0                   | 797                  |
| 3 x 25                        | 22.9 - 24.9                   | 1206                 |
| 3 x 35                        | 24.9 - 27.9                   | 1670                 |
| 3 x 50                        | 29.4 - 33.0                   | 2195                 |
| 3 x 70                        | 34.8 - 37.8                   | 3124                 |
| 3 x 95                        | 40.9 - 43.9                   | 4100                 |
| 3 x 120                       | 43.4 - 47.7                   | 4730                 |
| 3 x 150                       | 47.8 - 54.0                   | 5916                 |
| 3 x 185                       | 53.1 - 58.6                   | 7270                 |
| 4 x 1.5                       | 10.5 - 12.6                   | 200                  |
| 4 x 2.5                       | 12.0 - 13.7                   | 260                  |
| 4 x 4                         | 13.5 - 15.1                   | 360                  |
| 4 x 6                         | 15.7 - 17.7                   | 458                  |
| 4 x 10                        | 17.4 - 20.2                   | 670                  |
| 4 x 16                        | 21.4 - 23.1                   | 1038                 |
| 4 x 25                        | 24.5 - 28.1                   | 1576                 |
| 4 x 35                        | 28.4 - 31.4                   | 1978                 |
| 4 x 50                        | 33.6 - 36.6                   | 2765                 |
| 4 x 70                        | 38.8 - 42.5                   | 3930                 |
| 4 x 95                        | 44.8 - 47.8                   | 5165                 |
| 4 x 120                       | 50.0 - 53.9                   | 6200                 |
| 4 x 150                       | 55.0 - 58.9                   | 7537                 |
| 4 x 185                       | 59.0 - 63.3                   | 9420                 |
| 5 x 1.5                       | 11.4 - 13.5                   | 234                  |
| 5 x 2.5                       | 12.9 - 15.6                   | 318                  |
| 5 x 4                         | 14.7 - 16.7                   | 434                  |
| 5 x 6                         | 16.1 - 18.6                   | 594                  |
| 5 x 10                        | 19.0 - 22.0                   | 820                  |
| 5 x 16                        | 23.2 - 25.2                   | 1285                 |
| 5 x 25                        | 28.0 - 31.0                   | 1864                 |
| 5 x 35                        | 34.0 - 37.5                   | 2675                 |
| 7 x 1.5                       | 12.9 - 14.5                   | 300                  |
| 7 x 2.5                       | 14.9 - 17.4                   | 458                  |
| 12 x 1.5                      | 15.8 - 17.8                   | 420                  |
| 12 x 2.5                      | 17.3 - 19.6                   | 580                  |
| 18 x 1.5                      | 18.5 - 20.5                   | 610                  |
| 18 x 2.5                      | 21.2 - 23.4                   | 900                  |
| 24 x 1.5                      | 20.9 - 23.1                   | 760                  |
| 24 x 2.5                      | 22.8 - 24.8                   | 1140                 |
| 3 x 50/25                     | 29.0 - 33.5                   | 2510                 |
| 3 x 70/35                     | 34.8 - 37.8                   | 3500                 |
| 3 x 95/50                     | 44.0 - 49.0                   | 4300                 |
| 3 x 120/70                    | 44.7 - 47.7                   | 5470                 |
| 3 x 150/70                    | 49.5 - 54.8                   | 7000                 |
| 3 x 185/95                    | 54.5 - 58.5                   | 8300                 |
| 3 x 240/120                   | 60.9 - 66.2                   | 10500                |

## RATINGS

- Rated voltage: 0.6/1 kV; AC test voltage: 3 kV.
- Working temperature: fixed -40 °C to +90 °C; mobile -25 °C to +90 °C.
- Minimum bending radius and current carrying capacity according to DIN VDE 0298.
- Maximum tensile load of cable: 15 N/mm<sup>2</sup>.

## CERTIFICATIONS



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