



## CABLE STRUCTURE

|                     |   |
|---------------------|---|
| Conductor           | Electrolytic annealed, class 5 stranded plain copper wires (plain conductor on request) |
| Separator           | A suitable tape may be applied over the conductor                                       |
| Insulation          | 3GI3 Type elastomer compound  |
| Core Identification | Acc. to VDE 0293-308  |
| Separator           | A suitable tape may be applied over the laid-up   |
| Inner Sheath        | GM1b type elastomer compound  |
| Outer Sheath        | 5GM3 type elastomer compound  |
| Color               | Black (other colors on request)   |

## STANDARDS & MAIN CHARACTERISTICS

|                             |  |
|-----------------------------|--|
| Construction                | DIN VDE 0250-814                               |
| General Requirements        | DIN VDE 0250-1                                 |
| Guide to Use                | DIN VDE 0298-3                                 |
| Electrical Tests            | DIN VDE 0472-501, 502, 503, 508                |
| Non-Electrical Tests        | DIN VDE 0472-401, 402, 602, 303, 615           |
| Under Fire Conditions Tests | DIN VDE 0472-803, 804                          |
| Flame Retardant             | VDE 0482-332-1-2, DIN EN 60332-1-2, EC 60332-1 |
| Oil Resistant               | HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1      |

## OPERATING CHARACTERISTICS

|                                     |                        |
|-------------------------------------|------------------------|
| Rated Voltage                       | 0,6 / 1 kV             |
| Max. Operating AC Voltage           | 0,7 / 1.2 kV           |
| Max. Operating DC Voltage           | 0,9 / 1.8 kV           |
| AC Test Voltage                     | 3,5 kV                 |
| Conductor Operating Temperature     | Max. 90°C              |
| Conductor Short-Circuit Temperature | Max. 250°C             |
| Working Temperature                 |                        |
| Fixed                               | -40°C ... +80°C        |
| Mobile                              | -25°C ... +80°C        |
| Min Bending Radius                  | VDE 0298-3 Tab. 3      |
| Current Carrying Capacities         | VDE 0298-4             |
| Travel Speed                        |                        |
| In festoon systems                  | up to 240 m/min        |
| In reeling applications             | 60 m / min. horizontal |
| Max. tensile load of cable          | 15 N / mm <sup>2</sup> |

## Application

As flexible low voltage power and control cable and in all chain systems and festoon systems for connection and control cable in lifting devices, material handling equipment, hoisting plants and transporting machines for heavy mechanical load, in dry, damp or wet rooms and in wet industrial conditions. Suitable for application under high mechanical stresses and frequent bending during operation.



Ozone Resistant



Cold Resistant



Tear Resistant



Mechanical Stresses Resistance



Uv Resistant



Ex-Proof

| Cross Section (mm <sup>2</sup> ) | Overall Diameter Min. - Max. (mm) | Approximate Weight (kg / km) |
|----------------------------------|-----------------------------------|------------------------------|
| 1 x 35                           | 12,3 - 13,9                       | 430                          |
| 1 x 50                           | 15,0 - 16,6                       | 625                          |
| 1 x 70                           | 16,5 - 18,5                       | 835                          |
| 1 x 95                           | 18,9 - 20,9                       | 1070                         |
| 1 x 120                          | 20,8 - 22,8                       | 1340                         |
| 1 x 150                          | 22,9 - 24,9                       | 1650                         |
| 1 x 185                          | 24,8 - 27,8                       | 2010                         |
| 3 x 35 + 3 x 16 / 3              | 27,7 - 30,7                       | 1800                         |
| 3 x 50 + 3 x 25 / 3              | 32,5 - 35,5                       | 2540                         |
| 3 x 70 + 3 x 35 / 3              | 39,1 - 42,1                       | 3570                         |
| 4 x 2,5                          | 11,8 - 13,4                       | 270                          |
| 4 x 4                            | 13,9 - 15,5                       | 350                          |
| 4 x 6                            | 15,9 - 17,9                       | 475                          |
| 4 x 10                           | 18,2 - 20,2                       | 680                          |
| 4 x 16                           | 22,9 - 24,9                       | 1070                         |
| 4 x 25                           | 26,9 - 29,9                       | 1600                         |
| 4 x 35                           | 30,1 - 33,1                       | 2090                         |
| 4 x 50                           | 35,7 - 38,7                       | 2970                         |
| 5 x 4                            | 15,7 - 17,7                       | 450                          |
| 5 x 6                            | 17,5 - 19,5                       | 575                          |
| 5 x 10                           | 20,8 - 22,8                       | 865                          |
| 5 x 16                           | 24,6 - 27,6                       | 1300                         |
| 5 x 25                           | 29,5 - 32,5                       | 1940                         |
| 12 x 1,5                         | 16,0 - 18,4                       | 440                          |
| 18 x 1,5                         | 18,7 - 20,7                       | 650                          |
| 24 x 1,5                         | 22,1 - 24,1                       | 805                          |
| 30 x 1,5                         | 23,3 - 25,3                       | 930                          |
| 36 x 1,5                         | 24,6 - 27,6                       | 1090                         |
| 7 x 2,5                          | 15,3 - 17,4                       | 450                          |
| 12 x 2,5                         | 18,0 - 20,0                       | 610                          |
| 18 x 2,5                         | 21,5 - 23,5                       | 865                          |
| 24 x 2,5                         | 24,0 - 27,0                       | 1110                         |
| 30 x 2,5                         | 26,4 - 29,4                       | 1200                         |
| 36 x 2,5                         | 28,7 - 31,7                       | 1550                         |