# DR 720 P HIGHFLEX


Marking for DR 720 P Highflex 07201215:
SAB BRÖCKSKES · D-VIERSEN · DR 720 P Highflex 12 G 1,5 mm²

## Construction:

| | |
|---|---|
| **Conductor:** | bare copper strands acc. to IEC 60228 EN 60228, VDE 0295, class 5 |
| **Insulation:** | special polymer |
| **Colour code:** | coloured acc. to HD 308 (VDE 0293 part 308); from 6 cores black cores with consecutive numbers acc. to EN 50334; green-yellow earth wire from 3 cores |
| **Stranding:** | specially adjusted layering around central suspension unit |
| **Inner sheath:** | PUR |
| **Supporting screen:** | high-tech yarn |
| **Sheath material:** | PUR |
| **Sheath colour:** | black (RAL 9005) |

## Outstanding features:

- **path feed rate up to 120 m/min.**
- **extrem highly winding and unwinding strength**
- **small outer diameter**
- **small cable weight**
- **corresponds to low voltage guideline 73/23/EWG CE**
- **EAC approval**

## Application:

- **The DR 720 P Highflex is used for heavy appliances as for example motor cable reels hoists, transport systems, movable motors and farm vehicles with high mechanical stress**

## Technical Data:

| | |
|---|---|
| **Nominal voltage:** | 0,6/1 kV |
| **Testing voltage:** | core/core 4000 V |
| **Current-carrying capacity:** | acc. to DIN VDE 0298-4, see page N/36 + N/37 |
| **Min. bending radius:** | |
| *for laying and installation (fixed laying):* | ≤ 12 mm 3 x d / >12 mm 4 x d |
| *for repeated winding action (flexible):* | 6 x d |
| *guided on deflection pulleys (flexible):* | 7,5 x d |
| **Temperature range** | |
| *fixed laying:* | -50/+90 °C |
| *flexible application:* | -40/+90 °C |
| **Halogen-free:** | acc. to DIN VDE 0472 part 815 + IEC 60754-1 |
| **Oil resistance:** | very good - TMPU acc. to DIN VDE 0282 part 10 + HD 22.10 |
| **Chemical resistance:** | good against acids, alkalines, solvents, hydraulic liquids, etc. |
| **Fire performance:** | flame retardant and self-extinguishing acc. to IEC 60332-1-2 and EN 60332-1-2 |
| **Weather resistance:** | very good |
| **Sunlight resistance:** | very good - enhanced due to black sheath colour |
| **Tensile strength:** | acc. to DIN VDE 0298-3 section 7.1 |
| **Mechanical characteristics:** | the main mechanical characteristics accomplished by the PUR outer sheath are:<br>- high tensile strength<br>- high tear strength<br>- high abrasion resistance<br>- high notch resistance |
| **Absence of harmful substances:** | acc. to RoHS directive of the European Union see page N/17 |

| item no. | no. of cores x cross section n x mm² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | min breaking load of suspension unit N |
|---|---|---|---|---|---|
| 07200415 | 4 G 1,50 | 9,0 | 57,6 | 119 | 1340 |
| 07200515 | 5 G 1,50 | 9,8 | 72,0 | 142 | 1690 |
| 07200715 | 7 G 1,50 | 11,8 | 100,8 | 204 | 2150 |
| 07201215 | 12 G 1,50 | 16,6 | 172,8 | 359 | 2600 |
| 07201815 | 18 G 1,50 | 16,4 | 259,2 | 430 | 2600 |
| 07200425 | 4 G 2,50 | 10,4 | 96,0 | 170 | 1345 |
| 07200525 | 5 G 2,50 | 11,6 | 120,0 | 213 | 2100 |
| 07200725 | 7 G 2,50 | 13,8 | 168,0 | 299 | 2500 |
| 07201225 | 12 G 2,50 | 19,6 | 288,0 | 531 | 2900 |
| 07201825 | 18 G 2,50 | 19,7 | 432,0 | 641 | 3450 |
| 07202425 | 24 G 2,50 | 23,8 | 576,0 | 879 | 2700 |
| 07203025 | 30 G 2,50 | 26,6 | 720,0 | 1099 | 4200 |
| 07205025 | 50 G 2,50 | 32,4 | 1200,0 | 1739 | 6750 |

| item no. | no. of cores x cross section n x mm² | outer-ø ± 5% mm | copper figure kg/km | cable weight ≈ kg/km | min breaking load of suspension unit N |
|---|---|---|---|---|---|
| 07200440 | 4 G 4,00 | 12,4 | 153,6 | 255 | 1690 |
| 07201240 | 12 G 4,00 | 24,0 | 460,8 | 835 | 5000 |
| 07200460 | 4 G 6,00 | 14,8 | 230,4 | 369 | 1860 |
| 07200470 | 4 G 10,0 | 18,2 | 384,0 | 592 | 2300 |
| 07200480 | 4 G 16,0 | 22,7 | 614,4 | 915 | 2800 |
| 07200390 | 3 x 25,0 + 3 G 6,00 | 24,3 | 892,8 | 1188 | 3300 |
| 07200490 | 4 G 25,0 | 26,9 | 960,0 | 1351 | 3300 |
| 07200395 | 3 x 35,0 + 3 G 6,00 | 28,1 | 1180,8 | 1577 | 3300 |
| 07200495 | 4 G 35,0 | 31,5 | 1344,0 | 1893 | 3300 |
| 07200396 | 3 x 50,0 + 3 G 10,0 | 31,9 | 1728,0 | 2264 | 3800 |

Other dimensions and colours are possible on request.
Please mention the required winding length when placing the order.

**Note: Please pay attention to the installation instructions on page N/29**