

# PFSP 0,6/1kV

HD 603 S1 Part 3-J



## PVC insulated and PVC sheathed power cable with concentric copper conductor



### CONSTRUCTION

|                              |   |
|------------------------------|---|
| <b>Conductors:</b>           | annealed copper circular or circular compacted stranded conductor class 2 (FR) or stranded sector – shaped conductor class 2 (FV) acc. to IEC 60228 |
| <b>Insulation:</b>           | special PVC compound type DIV9 acc. to HD 603.1   |
| <b>Inner covering:</b>       | PVC tape  |
| <b>Concentric conductor:</b> | Copper wires and copper tape  |
| <b>Sheath:</b>               | special PVC compound type DMV24 acc. to HD 603.1  |

### CHARACTERISTIC

|  |  |
|--|--|
| <b>Colour of sheath:</b>   | grey RAL 7037  |
| <b>Core identification:</b>  | 3-core: brown, black, grey<br>4-core: blue, brown, black, grey |
| <b>Maximum conductor operating temperature:</b>                          | +70°C  |
| <b>Lowest ambient temperature for fixed installation:</b>                | -30°C  |
| <b>Lowest installation temperature:</b>                                  | -10°C  |
| <b>Maximum short-circuit conductor temperature:</b>                      | + 160°C  |
| <b>Minimum bending radius:</b>   | 12 x D, D – overall diameter                                   |
| <b>Max. permissible tensile stress with cable grip for Cu-conductor:</b> | 50 N/mm <sup>2</sup>   |
| <b>Test voltage:</b>   | 3,5kV  |
| <b>Flame retardant:</b>  | IEC 60332-1-2  |

### APPLICATIONS

PVC insulated and sheathed power cables for the supply of electrical energy. Special for installations in the open air, in underground and water, indoors, in cable ducts. The concentric conductor is allowed to use as neutral, protective or earthed conductor. Simultaneously, this also is permitted to apply as a screen for example earth-connected protection against contact.

|                                      |  |
|--------------------------------------|--|
| <b>Standard length cable packing</b> | 500 or 1000m on drums.<br>Other forms of packing and delivery are available on request |
|--------------------------------------|--|

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| Number and cross-sectional area of conductor | Approximate overall diameter | Approximate net weight of cables | Maximum conductor /concentric conductor resistance at temperature 20°C |
|--|------------------------------|----------------------------------|--|
| n x mm <sup>2</sup>                          | mm                           | kg/km                            | Ω/km   |
| 3x25FR/16                                    | 24,2                         | 968                              | 0,727/1,15   |
| 3x35FV/16                                    | 24,8                         | 1433                             | 0,524/1,15   |
| 3x50FV/25                                    | 28,1                         | 1934                             | 0,387/0,727  |
| 3x70FV/35                                    | 31,1                         | 2644                             | 0,268/0,524  |
| 3x95FV/50                                    | 34,8                         | 3585                             | 0,193/0,387  |
| 3x120FV/70                                   | 38                           | 4498                             | 0,153/0,268  |
| 3x185FV/95                                   | 46,3                         | 6777                             | 0,0991/0,164   |
| 4x25FR/16                                    | 27,6                         | 1504                             | 0,727/1,15   |
| 4x35FV/16                                    | 27,5                         | 1824                             | 0,524/1,15   |
| 4x50FV/25                                    | 31,3                         | 2463                             | 0,387/0,727  |
| 4x70FV/35                                    | 34,6                         | 3369                             | 0,268/0,524  |
| 4x95FV/50                                    | 39,9                         | 4661                             | 0,193/0,387  |



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