

# PFSP 450/750V

Based on HD 627-4B2



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



### CONSTRUCTION

<b>Conductors:</b>	annealed copper solid class 1(ER) acc. to EN 60228
<b>Insulation:</b>	special PVC compound type DIV9 acc. to HD 603.1
<b>Inner covering:</b>	non – vulcanized rubber
<b>Concentric conductor:</b>	round copper wires and copper tape
<b>Sheath:</b>	special PVC compound type DMV24 acc. to HD 603.1, hardness 74-78 Shore A

### CHARACTERISTIC

<b>Colour of sheath:</b>	grey RAL 7037
<b>Core identification:</b>	white with black numbering
<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> , calculated for the nominal sum of cross-sections of the inner conductors; the cross-section of the concentric conductors not be considered.
<b>Flame retardant:</b>	IEC 60332-1-2

### APPLICATIONS

PVC insulated and sheathed auxiliary control 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. Other forms of packing and delivery are available on request
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Number and cross-sectional area of conductor	Number of wires in conductor	Nominal thickness of insulation	Nominal thickness of sheath	Approximate overall diameter	Max overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm <sup>2</sup>	n	mm	mm	mm	mm	kg/km	Ω/km
5x1,5ER/4	1	0,7	1,5	12,6	13,5	252	12,1/4,61
7x1,5ER/4	1	0,7	1,5	13,4	15,0	295	12,1/4,61
12x1,5ER/4	1	0,7	1,5	16,8	17,7	441	12,1/4,61
19x1,5ER/6	1	0,7	1,8	19,0	20,9	607	12,1/3,08
27x1,5ER/6	1	0,7	1,8	22,0	24,2	796	12,1/3,08
37x1,5ER/6	1	0,7	1,8	23,8	26,2	1003	12,1/3,08
5x2,5ER/4	1	0,8	1,5	14,1	15,6	331	7,41/4,61
7x2,5ER/4	1	0,8	1,5	15,2	16,7	403	7,41/4,61
12x2,5ER/4	1	0,8	1,5	19,2	21,2	609	7,41/4,61
19x2,5ER/6	1	0,8	1,8	21,9	24,1	856	7,41/3,08

The thickness of the sheaths and the tolerances of the thickness both shall be at the absolute min. of the standard'

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