

PFSP 1,5÷16mm² 0,6/1kV

HD 603-3J

PVC insulated and PVC sheathed power cable with concentric copper conductor



CONSTRUCTION

Conductors:	annealed copper solid class 1(ER), circular or circular compacted stranded conductor class 2 (FR) acc. to EN 60228
Insulation:	special PVC compound type DIV9 acc. to HD 603.1
Inner covering:	non – vulcanized rubber
Concentric conductor:	round copper wires and copper tape
Sheath:	special PVC compound type DMV24 acc. to HD 603.1, hardness 74-78 Shore A

CHARACTERISTIC

Colour of sheath:	grey RAL 7037
Core identification:	
2-core:	blue, brown
3-core:	brown, black, grey
4-core:	blue, brown, black, grey
Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for fixed installation:	-30°C
Lowest installation temperature:	-10°C
Maximum short-circuit conductor temperature:	+ 160°C
Minimum bending radius:	12 x D, D – overall diameter
Max. permissible tensile stress with cable grip for Cu-conductor:	50 N/mm ² , calculated for the nominal sum of cross-sections of the inner conductors; the cross-section of the concentric conductors not be considered.

REACTION TO FIRE

▪ Flame retardant:	IEC 60332-1-2
▪ CPR – reaction to fire class (acc. to EN 50575):	Eca

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.

Standard length cable packing	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	Nominal thickness of insulation	Thickness of inner sheath	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 ²	mm	mm	mm	mm	mm	kg/km	Ω/km
2x1,5ER/1,5	0,8	0,3	1,5	10,2	11,5	149	12,1/12,1
2x2,5ER/2,5	0,8	0,3	1,5	11,0	12,3	188	7,41/7,41
2x4ER/4	1,0	0,3	1,5	13,1	14,5	276	4,61/4,61
2x6ER/6	1,0	0,3	1,5	14,4	15,7	353	3,08/3,08
2x10FR/10	1,0	0,4	1,8	17,5	18,8	553	1,83/1,83
2x16FR/16	1,0	0,4	1,8	20,0	21,3	783	1,15/1,15
3x1,5ER/1,5	0,8	0,3	1,5	10,6	12,0	168	12,1/12,1
3x2,5ER/2,5	0,8	0,3	1,5	11,5	12,8	216	7,41/7,41
3x4ER/4	1,0	0,3	1,5	13,7	15,5	319	4,61/4,61
3x6ER/6	1,0	0,4	1,5	15,1	16,6	412	3,08/3,08
3x10FR/10	1,0	0,4	1,8	18,3	19,7	650	1,83/1,83
3x16FR/16	1,0	0,4	1,8	21,0	22,3	931	1,15/1,15
4x1,5ER/1,5	0,8	0,3	1,5	11,4	12,7	194	12,1/12,1
4x2,5ER/2,5	0,8	0,3	1,5	12,3	13,7	252	7,41/7,41
4x4ER/4	1,0	0,4	1,5	14,8	16,3	374	4,61/4,61
4x6ER/6	1,0	0,4	1,5	16,4	17,8	495	3,08/3,08
4x10FR/10	1,0	0,4	1,8	19,8	21,5	771	1,83/1,83
4x16FR/16	1,0	0,4	1,8	22,7	24,1	1109	1,15/1,15

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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