

PFSP AL 0,6/1kV

HD 603 S1 Part 3-J



PVC insulated and PVC sheathed power cable with concentric copper conductor



CONSTRUCTION

Conductors:	plain soft aluminium (annealed after stranding) circular or circular compacted stranded conductor class 2 (AFR) or stranded sector – shaped conductor class 2 (AFV) acc. to EN 60228
Insulation:	special PVC compound type DIV9 acc. to HD 603.1
Inner covering:	Polypropylene tape
Concentric conductor:	round copper wires and copper tape with polyester bedding
Sheath:	special PVC compound type DMV24 acc. to HD 603.1

CHARACTERISTIC

Colour of sheath:	grey RAL 7037
Core identification:	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 Al-conductor:	30 N/mm ²
Test voltage:	3,5kV

FIRE PERFORMANCE

▪ Flame retardant:	EN 60332-1-2
▪ CPR – class reaction to fire (acc 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	Approximate overall diameter	Approximate net weight of cables	Maximum conductor /concentric conductor resistance at temperature 20°C
n x mm ²	mm	kg/km	Ω/km
3x25AFR/10	24,2	658	1,20/1,83
3x50AFV/16	26,8	932	0,641/1,15
3x95AFV/35	34,8	1726	0,320/0,524
3x150AFV/50	41,1	2473	0,206/0,387
3x240AFV/70	51,3	3844	0,125/0,268
4x25AFR/10	26,4	780	1,20/1,83
4x50AFV/16	30,0	1168	0,387/1,15
4x95AFV/35	39,1	2152	0,320/0,524
4x150AFV/50	46,1	3086	0,206/0,387
4x240AFV/70	57,7	4827	0,125/0,268



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