PFSP

Power cable 0,6/1 kV with Al conductors, PVC insulated and sheathed

APPLICATION

Distribution power cable for static outdoor application (with protection against direct UV-irradiation), in ground, in water, within facilities, in cable canals, in concrete, in conditions where there is a danger of possible mechanical damages, but where the cable is not exposed either to systematic mechanical stress or heavier tensile strain. Used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Concentric conductor can be used as neutral, protective or earth connection, and in situations where the insulation might be roughly damaged by some metal object, it acts as protection against contact voltage. Corrugated, concentric conductor construction enables establishing of several cable connections without cutting of conductor.

CONSTRUCTION

Conductors: . Al, class1 or 2 according to EN 60228
Insulation: : PVC compound, type DIV 9
Bedding: Extruded elastomere or plastomere compound or plastic tape
Concentric conductor: Cu wires with counter helix of Cu tape
Sheath: PVC compound, type DMV 24

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:
3-core (a): Green/Yellow Brown Blue
3-core (b): Black Brown Grey
4-core (a): Green/Yellow Brown Black Grey
4-core (b): Blue Brown Black Grey
5-core: Green/Yellow Blue Brown Black Grey

Outer Sheath Colour:
Black
Other colours available on request

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
Rated voltage: 0,6/1 kV
Bending radius (min): single-core- 15D; multi-core- 12D
Min. laying temperature: -10°C
Max. conductor temperature: 70°C
Max. short-circuit temperature: 160°C

STANDARD

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CERTIFICATION

CE
RoHS compliant
International Electrotechnical Commission
REACH

NOMINAL CROSS-SECTION	CONDUCTOR CONSTRUCTION	MAX. RESISTANCE AT 20°c	CURRENT CAPACITY IN AIR	CURRENT CAPACITY IN EARTH	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm2		Ω/km	A	A	mm	kg/km	kg/km
3x16/10	AFR	1,910			19,2	139,2	575,5
3x25/10	AFR	1,200	83	103	22,5	217,5	767,9
3x50/16	AFV	0,641	121	145	28,8	435,0	936,1
3x95/35	AFV	0,320	189	216	37,3	826,5	1707,4
3x150/50	AFV	0,206	249	276	44,9	1305,0	2479,1
3x240/70	AFV	0,125	339	362	55,7	2088,0	3798,6
4x16/10	AFR	1,910			20,4	185,6	645,4
4x25/10	AFR	1,200	83	103	25,2	290,0	882,5
4x50/16	AFV	0,641	121	145	32,5	580,0	1151,1
4x95/35	AFV	0,320	189	216	42,2	1102,0	2093,9
4x150/50	AFV	0,206	249	276	52,1	1740,0	3072,2
4x240/70	AFV	0,125	339	362	64,8	2784,0	4734,5

AFR = Aluminium round conductor
AFV=Aluminium sector-shaped conductor