

Al/XLPE/CWS/PVC

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

TECHNICAL CHARACTERISTICS

Test voltage: 4 kV
 Rated voltage: 0,6/1 kV
 Bending radius (min): single-core- 15D;
 multicore- 12D
 Min. laying temperature: -5°C
 Max. conductor temperature: 90°C
 Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Al, class 1 according to EN 60228
 Insulation: XLPE compound, type DIX 3
 Bedding: Epdm rubber
 Concentric conductor: Cu wires (wave-form)
 with counter helix of Cu tape
 Sheath: PVC compound, type DMV 23

STANDARD

BS 7870-3.40

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

CERTIFICATION

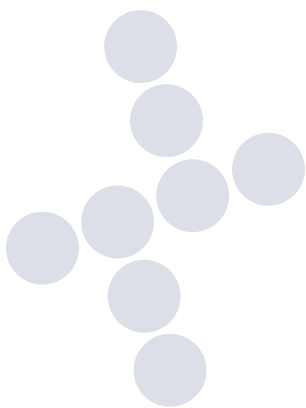


International
 Electrotechnical
 Commission



NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
3x35	SE	0,868	128	24,6	304,5	977
3x70	SE	0,443	194	32,0	609,0	1689
3x95	SE	0,320	239	35,4	826,5	2196
3x120	SE	0,253	278	38,4	1044,0	2671
3x185	SE	0,164	365	46,0	1609,5	3948
3x240	SE	0,125	430	50,6	2088,0	4630
3x300	SE	0,100	506	54,9	2610,0	5345

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm ²		Ω/km	A	mm	kg/km	kg/km
4x35	SE	0,868	128	27,5	406,0	1135
4x70	SE	0,443	194	35,5	812,0	1990
4x95	SE	0,320	239	39,5	1102,0	2595
4x120	SE	0,253	278	42,9	1392,0	3164
4x185	SE	0,164	365	51,6	2146,0	4689
4x240	SE	0,125	430	57,0	2784,0	5584
4x300	SE	0,100	506	61,9	3480,0	6502



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