FOR ITALIAN MARKET

A07BN4-F WIND HEAVY WORK

Model Product: 450 - 20170112

CE

Class 5 flexible copper conductor.
Elastomeric mixture Insulation special quality.
Special Rubber outer sheath

STANDARDS

According to DIN VDE 0282-12/HD 22.12

(Accordingly to the standards BT 2014/35/UE- 2011/65/EU (RoHS 2))

COMMON FEATURES

WIND POWER APPLICATION in heavy duty. The outer sheath is acids and hydrocarbons resistant (chemical industry) and also moistness and mould resistant. This cable suitable for fi xed and protected installation voltage until 1000V AC.A system exercice voltage can always overfl ow the 10% of its standard voltage.

EMPLOYMENT

Minimum bending radius per D cable diameter (in mm):
Normal use ≤ 12D = 5D > 20D=6D
Accurate bending close to the terminal ≤ 12D = 3D > 20D=4D
Festoon i.e. for support crane ≤ 12D = 6D > 20D=8D
Repeted wiring ≤ 12D = 6D > 20D=8D
Turned off on pulley ≤ 12D = 8D > 20D=8D

Maximum pulling stress: Twist maximum:+/-150°/m

PACKING

The cable drum length may be decided at order time.

RUBBER SHEATFOR WIND POWER APPLICATION

Nominal voltage U0: 450 V

Nominal voltage U: 750 V

Test voltage: 3000 V

Maximun voltage Um: 1000V Installazioni Fisse / for fixed installation

Maximun operating temperature: +90°C

Maximun short circuit temperature: +250°C

Minimum installation and laying temperature: -30°C

Min. operating temperature (without mechanical shocks): -40°c

CORE COLOURS

Single core: Light-Grey

Three cores: Brown - Black - Gray (o Y/G, Blue and Brown)

SHEATH COLOUR

Black

INK MARKING

GENERAL CAVI WINDHEAVYWORK AO7BN4-F

CE

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Cores number	Nominal Section	Approx conductor diameter	Insulation minimum thickness	Maximum external diameter	Electric resistance at 20°C	Current carrying capacities 30°C		Current carrying capacities 40°C		Current carrying capacities 50°C	
						Spaced	Trefoil	Spaced	Trefoil	Spaced	Trefoil
(N°)	(mm²)	(mm)	(mm)	(mm)	(Ohm/km)	(A)	(A)	(A)	(A)	(A)	(A)
Single core											
1x	25	6	1.4	13.74	0.78	182	135	165	122	149	110
1x	35	8.1	1.4	15.35	0.554	226	169	205	154	185	138
1x	50	9.8	1.6	17.68	0.386	275	207	250	188	225	169
1x	70	11.6	1.6	20.00	0.272	353	268	321	243	289	219
1x	95	13.3	1.8	22.12	0.206	430	328	391	298	352	268
1x	120	15.1	1.8	24.54	0.161	500	383	455	348	410	314
1x	150	16.8	2.0	26.87	0.129	577	444	525	404	473	364
1x	185	18.6	2.2	28.89	0.106	661	510	601	464	542	418
1x	240	21.4	2.4	32.62	0.0801	781	607	710	552	640	497
1x	300	23.9	2.6	36.46	0.0641	902	703	820	639	739	576
Three cores											
3x	25	6.9	1.4	28.70	0.78	-	127	-	116	-	105
3x	35	8.1	1.4	32.19	0.554	-	158	-	144	-	130
3x	50	9.8	1.6	37.02	0.386	-	192	-	175	-	158
3x	70	11.6	1.6	42.07	0.272	-	246	-	224	-	202
3x	95	13.3	1.8	46.58	0.206	-	298	-	272	-	245
3x	120	15.1	1.8	51.74	0.161	-	346	-	315	-	284
3x	150	16.8	2.0	57.21	0.129	-	399	-	364	-	328
3x	185	18.6	2.2	61.59	0.106	-	456	-	415	-	374

Correction factor to calculate:
40°C=0,91
50°C=0,82

Conductor at 90°C, Cable in free air