PVC Insulated Single Core

6mm2 PVC Building Wire White

Contact
OLEX CUSTOMER SERVICE - Purchase orders, invoices, general enquiries
Phone: 1300 CABLES
olex.customerservice@nexans.com

Nexans ref.: BAAP11A1001AAWT
GTIN: 9319215008024

6mm2 PVC Building Wire White

DESCRIPTION

Single Core Building Wires

- Single core,
- 0.6/1kV V-90 insulated,
- to AS/NZS 5000.1 (unsheathed),
- Copper conductors, 90°C.

STANDARDS

National AS/NZS 1125; AS/NZS 5000.1

Conductor flexibility
Solid class 1

Rated Voltage Uo/U (Um)
0.6/1 kV

Cable flexibility
Rigid

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CHARACTERISTICS

Construction characteristics	
Conductor material	Copper
With Green/Yellow core	No
Conductor flexibility	Solid class 1
Colour	White
Type of conductor	Stranded copper
With smaller neutral conductor	No
Insulation	V-90
Dimensional characteristics	
Nominal insulation thickness	1.0 mm
Nominal overall diameter	5.1 mm
Conductor cross-section	6 mm²
Approximate weight	7.1 kg/100m
Cable length	100 m
Number of cores	1
Electrical characteristics	
Inductive reactance at 50Hz - trefoil	0.128 Ohm/km
Inductive reactance at 50Hz - flat touching	0.143 Ohm/km
Max. DC resistance of the conductor at 20°C	3.08 Ohm/km
Conductor AC resistance at 50 Hz	3.75 Ohm/km
Insulation resistance at 20°C	8.6 MOhm.km
Rated Voltage Uo/U (Um)	0.6/1 kV
Mechanical characteristics	
Cable flexibility	Rigid

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PVC INSULATED - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	16	16	13	13	11	6	18	21
1.5	21	21	16	18	14	8	23	26
2.5	30	29	23	24	20	12	32	36
4	40	39	31	32	25	16	41	47
6	51	49	40	41	33	20	52	58
10	69	67	54	54	44	27	69	77
16	92	89	72	70	56	36	89	99
25	124	119	97	94	75	48	116	129
35	153	145	119	112	90	59	139	155
50	187	177	146	138	110	-	168	186
70	238	223	184	170	136	-	206	228
95	295	276	230	212	169	-	252	278
120	344	321	267	242	193	-	287	316
150	395	367	308	282	225	-	329	354
185	459	424	358	320	256	-	373	408
240	549	505	428	381	305	-	438	472
300	636	582	495	-	-	-	496	546
400	744	676	577	-	-	-	575	621
500	867	780	668	-	-	-	649	721
630	1014	897	770	-	-	-	750	816


Unenclosed spaced


Unenclosed spaced from surface


Unenclosed touching


Enclosed conduit in air


Thermal insulation, partially surrounded by thermal insulation


Thermal Insulation, completely surrounded by thermal insulation


Underground ducts A - Undergound Wiring Enclosure


Underground ducts B - Individual Wiring Enclosure

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PVC INSULATED - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
1	16	14	13	12	10	6	16	19
1.5	20	17	16	15	12	8	20	24
2.5	29	25	23	21	17	12	27	33
4	38	33	31	28	23	16	36	43
6	49	42	40	35	28	20	45	53
10	67	58	54	47	37	27	59	70
16	89	77	72	62	50	36	78	90
25	120	103	97	81	64	48	100	117
35	148	127	119	100	80	59	122	140
50	181	156	146	119	95	-	144	168
70	230	197	184	152	122	-	180	205
95	287	246	230	183	147	-	217	250
120	335	287	267	217	173	-	252	283
150	385	330	308	244	195	-	283	317
185	447	383	357	284	227	-	325	365
240	535	457	426	331	265	-	377	422
300	620	529	492	388	311	-	434	488
400	726	615	573	442	353	-	492	553
500	846	710	661	523	418	-	571	641
630	990	817	760	588	471	-	639	723

 Unenclosed spaced

 Unenclosed spaced from surface

 Unenclosed touching

 Enclosed conduit in air

 Thermal insulation, partially surrounded by thermal insulation

 Thermal Insulation, completely surrounded by thermal insulation

 Underground ducts A - Undergound Wiring Enclosure

 Underground ducts B - Individual Wiring Enclosure