PVC Orange Circular 2C+E & 3C+E (450/750V & 0.6/1.0kV)

2 & 3 core+earth, circular, V-90 insulated, PVC sheathed to AS/NZS 5000, Copper conductors Manufactured to PVC Best Practice Guidelines.



DESCRIPTION

- 2 & 3 core+earth, circular,
- V-90 insulated,
- 90°C PVC sheathed to AS/NZS 5000,
- Stranded Copper conductors

Note: Cores smaller than 25mm2 are not compacted.

PVC Circular; Orange Circular ; Circs

STANDARDS

National AS/NZS 1125; AS/NZS 5000; AS/NZS 5000.1; AS/NZS 5000.2

CHARACTERISTICS

Construction characteristics	
Colour	Orange
Conductor flexibility	Class 2
Conductor material	Copper
Conductor shape	Circular
Insulation	V-90
Outer sheath	PVC

Conductor flexibility
Class 2

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PVC Orange Circular 2C+E & 3C+E (450/750V & 0.6/1.0kV)

PVC CIRCULAR 2 CORES + EARTH

Cross section [mm²]	Type of conductor	Nom. insulation thick. [mm]	Nom. outer sheath thick. [mm]	Earth cond. sect. [mm²]	Nom. overall diam. [mm]	Approx. weight [kg/100m]	Colour	Nexans Ref.
1.5	Stranded copper	0.6	0.7	1.5	8.4	10.6	Orange	CNHP05A1002OMAA
1.5	Stranded copper	0.6	0.7	1.5	8.4	10.6	Orange	CNHP05A5002OMAA
1.5	Stranded copper	0.8	1.8	1.5	10.1	16.0	Orange	DNHP05A5002OMAA
2.5	Stranded copper	0.7	1.2	2.5	9.8	15.9	Orange	CNHP07A1002OMAA
2.5	Stranded copper	0.7	1.2	2.5	9.8	15.9	Orange	CNHP07A5002OMAA
2.5	Stranded copper	0.8	1.8	2.5	11.3	21.0	-	DNHP07AA002OMAA
2.5	Stranded copper	0.8	1.8	2.5	11.3	21.0	Orange	DNHP07A1002OMAA
4	Stranded copper	0.8	1.3	2.5	11.4	20.8	Orange	CNHP09A1002OMAA
4	Stranded copper	0.8	1.3	2.5	11.4	20.8	Orange	CNHP09A5002OMAA
4	Stranded copper	0.8	1.8	2.5	11.3	28.0	Orange	DNHP09A5002OMAA
4	Stranded copper	1.0	1.8	2.5	13.0	28.0	Orange	DNHP09AA002OMAA
6	Stranded copper	0.8	1.3	2.5	12.4	25.7	Orange	CNHP11A1002OMAA
6	Stranded copper	0.8	1.3	2.5	12.4	25.7	Orange	CNHP11A5002OMAA
6	Stranded copper	0.8	1.3	2.5	12.4	25.7	Orange	CNHP11AA002OMAA
6	Stranded copper	1.0	1.8	2.5	14.0	33.0	Orange	DNHP11A1002OMAA
6	Stranded copper	1.0	1.8	2.5	14.0	33.0	Orange	DNHP11AA002OMAA
10	Stranded copper	1.0	1.8	4	14.0	33.0	Orange	DNHP13A1002OMAA
10	Stranded copper	1.0	1.8	4	14.0	43.5	Orange	DNHP13A5002OMAA
10	Stranded copper	1.0	1.8	4	16.1	43.5	Orange	DNHP13AA002OMAA
16	Stranded copper	1.0	1.8	6	18.0	59.7	Orange	DNHP15A1002OMAA
16	Stranded copper	1.0	1.8	6	18.0	59.7	Orange	DNHP15A5002OMAA
16	Stranded copper	1.0	1.8	6	18.0	59.7	Orange	DNHP15AA002OMAA

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PVC Orange Circular 2C+E & 3C+E (450/750V & 0.6/1.0kV)

PVC CIRCULAR 3 CORES + EARTH

Cross section [mm²]	Type of conductor	Nom. insulation thick. [mm]	Nom. outer sheath thick. [mm]	Earth cond. sect. [mm²]	Nom. overall diam. [mm]	Approx. weight [kg/100m]	Colour	Nexans Ref.
1.5	Stranded copper	0.6	1.2	1.5	9.2	59.7	Orange	ENHP05A1003OMAA
1.5	Stranded copper	0.6	1.2	1.5	9.2	59.7	Orange	ENHP05A5003OMAA
1.5	Stranded copper	0.8	1.8	1.5	11.0	19.0	Orange	FNHP05A1003OMAA
1.5	Stranded copper	0.8	1.8	1.5	11.0	19.0	Orange	FNHP05A5003OMAA
1.5	Stranded copper	0.8	1.8	1.5	11.0	19.0	Orange	FNHP05AA003OMAA
2.5	Stranded copper	0.7	1.3	2.5	11.1	19.7	Orange	ENHP07A1003OMAA
2.5	Stranded copper	0.7	1.3	2.5	11.1	19.7	Orange	ENHP07A5003OMAA
2.5	Stranded copper	0.8	1.8	2.5	12.3	26.0	Orange	FNHP07A1003OMAA
2.5	Stranded copper	0.8	1.8	2.5	12.3	26.0	Orange	FNHP07A5003OMAA
4	Stranded copper	0.8	1.3	2.5	12.5	26.3	Orange	ENHP09A1003OMAA
4	Stranded copper	0.8	1.3	2.5	12.5	26.3	Orange	ENHP09A5003OMAA
4	Stranded copper	0.8	1.3	2.5	13.5	33.2	Orange	ENHP11A1003OMAA
4	Stranded copper	0.8	1.3	2.5	13.5	33.2	Orange	ENHP11A5003OMAA
4	Stranded copper	1.0	1.8	2.5	14.1	34.0	Orange	FNHP09AA003OMAA
6	Stranded copper	0.8	1.3	2.5	13.5	33.2	Orange	ENHP11AA003OMAA
6	Stranded copper	1.0	1.8	2.5	15.1	42.0	Orange	FNHP11AA003OMAA
10	Stranded copper	1.0	1.8	4	17.5	56.1	Orange	FNHP13AA003OMAA
16	Stranded copper	1.0	1.8	6	19.6	78.2	Orange	FNHP15AA003OMAA

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PVC Orange Circular 2C+E & 3C+E (450/750V & 0.6/1.0kV)

PVC CIRCULAR (2 CORE+E) - CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section [mm²]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
1	15	14	11	7	13	10	6	22	17
1.5	19	18	14	9	16	13	8	28	21
2.5	27	26	20	13	23	19	12	40	30
4	37	34	27	17	30	24	15	52	39
6	46	44	35	22	39	31	20	65	50
10	64	60	48	30	52	42	26	87	66
16	85	80	64	40	68	54	34	114	86
25	113	107	85	53	90	72	45	147	112
35	139	131	105	65	112	90	56	178	136
50	170	159	127	-	133	107	-	211	162
70	215	201	161	-	170	136	-	259	202
95	265	248	198	-	204	163	-	311	243
120	307	288	230	-	241	192	-	355	282
150	351	328	263	-	271	217	-	398	317
185	403	377	302	-	313	250	-	449	363
240	477	446	357	-	364	291	-	520	421
300	547	511	409	-	424	340	-	586	483
400	631	589	471	-	482	386	-	663	548
500	716	668	534	-	561	449	-	741	628

 Unenclosed spaced

 Unenclosed touching

 Unenclosed and partially surrounded by thermal insulation

 Unenclosed and completely surrounded by thermal insulation

 Enclosed conduit in air

 Enclosed, partially surrounded by thermal insulation

 Enclosed, completely surrounded by thermal insulation

 Buried direct

 Underground ducts

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PVC Orange Circular 2C+E & 3C+E (450/750V & 0.6/1.0kV)

PVC CIRCULAR 3C + 4C AND EARTH - CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS)

Copper Conductor Insulation PVC Maximum Conductor Temperature 75C

Conductor cross-section									
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	13	12	9	6	11	9	5	19	14
1.5	16	15	12	8	14	11	7	24	18
2.5	23	22	17	11	20	16	10	34	25
4	31	29	23	15	25	20	13	44	33
6	40	37	30	19	33	26	16	55	42
10	54	51	41	25	44	35	22	74	55
16	72	68	54	34	58	47	29	96	73
25	97	91	73	46	76	60	38	125	94
35	120	112	90	56	94	75	47	150	114
50	146	137	109	-	112	89	-	178	136
70	185	172	138	-	142	114	-	219	170
95	228	213	170	-	177	142	-	263	208
120	265	247	198	-	202	162	-	300	237
150	303	282	226	-	228	182	-	336	266
185	348	324	259	-	263	211	-	379	304
240	412	383	307	-	316	253	-	438	359
300	472	438	-	-	-	-	-	493	404
400	544	504	-	-	-	-	-	557	468
500	616	571	-	-	-	-	-	620	522

 Unenclosed spaced

 Unenclosed touching

 Unenclosed and partially surrounded by thermal insulation

 Unenclosed and completely surrounded by thermal insulation

 Enclosed conduit in air

 Enclosed, partially surrounded by thermal insulation

 Enclosed, completely surrounded by thermal insulation

 Buried direct

 Underground ducts

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