CONTROL CABLE

CLASS 2, COPPER CONDUCTOR, PVC INSULATED, PVC SHEATHED - DVV

Cu/PVC/PVC

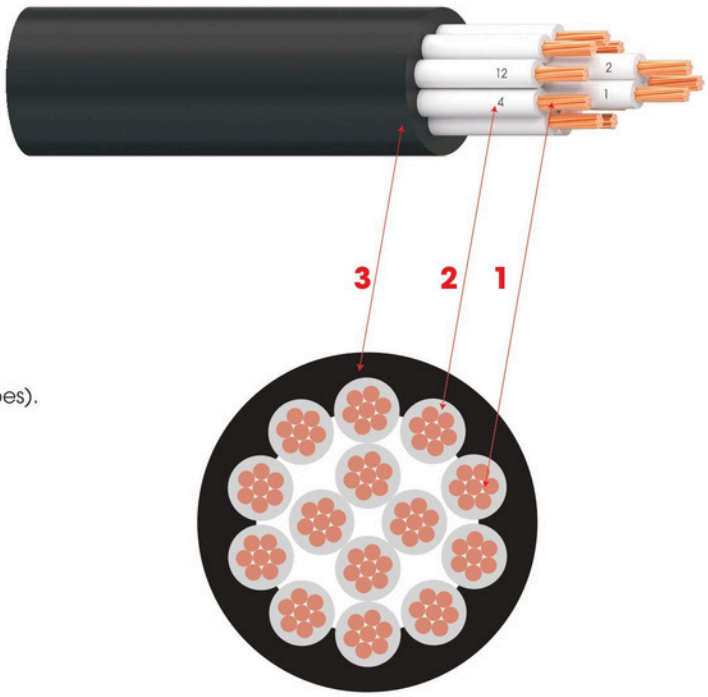
STANDARD:
- AS/NZS 5000.1 - AS/NZS 1125 - AS/NZS 3808

CONSTRUCTION:
- Conductor: Annealed copper wire (class 2)
- Insulation: PVC (Type V-90)
- Filler: PP (if necessary)
- Sheath: PVC (Type 5V-90)

IDENTIFICATION:
- 2 cores: identified by numbers (01, 02), black numbers shall be printed on surface of white Insulation of cores
- 3 cores & more: identified by numbers (01, 02…), black numbers shall be printed on surface of white Insulation of cores combine with a core in yellow-green color (green Insulation with yellow stripes).
- Number of cores: 2, 3, 4, 7, 8, 10, 12, 19, 20.
- Outer sheath: Black or colour as order

TECHNICAL CHARACTERISTICS:
- Rated voltage U_0/U: 0,6/1 kV.
- Maximum conductor temperature for normal operation is 75°C.
- Maximum permissible temperature when not exposed to mechanical deformation is 90°C.
- Maximum conductor temperature for short-circuit (5s maximum duration) is 160°C.
- Minimum bending radius: Installed cables: 12 x D (D: overall diameter of cable).

APPLICATION:
- DVV control cables are used for control circuits, rated voltage 0,6/1 kV - 50Hz, fixed wiring. Laid on cable ladder, tray, in duct in a thermal Insulation wall, on a wall or spaced from wall, on the dry and closed cable trench in workshops, building; from source to machine or device, in duct in the ground…



1. Conductor: Copper
2. Insulation: PVC (Type V-90)
3. Inner sheathed: PVC (Type 5V-90)

No.	Conductor				Cable			
	Nominal Area	Number/ Nominal dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal insulation thickness	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm^2	N°/mm	mm	Ω/km	mm	mm	mm	kg/km
2 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	10.0	131
2	2.5	7/0.67	2.01	7.41	0.8	1.8	11.0	171
3	4.0	7/0.85	2.55	4.61	1.0	1.8	13.0	247
4	6.0	7/1.04	3.12	3.08	1.0	1.8	14.0	306
5	10	7/1.32	3.96	1.83	1.0	1.8	16.8	403
6	16	7/1.67	5.01	1.15	1.0	1.8	18.8	544
3 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	10.6	155
2	2.5	7/0.67	2.01	7.41	0.8	1.8	11.7	206
3	4.0	7/0.85	2.55	4.61	1.0	1.8	13.8	301
4	6.0	7/1.04	3.12	3.08	1.0	1.8	14.9	380
5	10	7/1.32	3.96	1.83	1.0	1.8	17.8	518
6	16	7/1.67	5.01	1.15	1.0	1.8	19.9	728
4 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	11.3	180
2	2.5	7/0.67	2.01	7.41	0.8	1.8	12.5	244

No.	Conductor				Cable			
	Nominal Area	Number/ Nominal dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal insulation thickness	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm²	N°/mm	mm	Ω/km	mm	mm	mm	kg/km
3	4.0	7/0.85	2.55	4.61	1.0	1.8	14.9	360
4	6.0	7/1.04	3.12	3.08	1.0	1.8	16.1	460
5	10	7/1.32	3.96	1.83	1.0	1.8	19.4	645
6	16	7/1.67	5.01	1.15	1.0	1.8	21.8	916
7 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	13.0	238
2	2.5	7/0.67	2.01	7.41	0.8	1.8	14.5	335
3	4.0	7/0.85	2.55	4.61	1.0	1.8	17.5	504
4	6.0	7/1.04	3.12	3.08	1.0	1.8	19.0	660
8 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	14.4	280
2	2.5	7/0.67	2.01	7.41	0.8	1.8	16.1	388
3	4.0	7/0.85	2.55	4.61	1.0	1.8	19.6	594
4	6.0	7/1.04	3.12	3.08	1.0	1.8	21.3	773
10 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	16.1	331
2	2.5	7/0.67	2.01	7.41	0.8	1.8	18.1	470
3	4.0	7/0.85	2.55	4.61	1.0	1.8	22.1	713
4	6.0	7/1.04	3.12	3.08	1.0	1.8	24.1	939
12 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	16.6	373
2	2.5	7/0.67	2.01	7.41	0.8	1.8	18.7	535
3	4.0	7/0.85	2.55	4.61	1.0	1.8	22.8	817
4	6.0	7/1.04	3.12	3.08	1.0	1.8	24.9	1080
19 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	19.2	543
2	2.5	7/0.67	2.01	7.41	0.8	1.8	21.7	793
3	4.0	7/0.85	2.55	4.61	1.0	1.8	26.7	1227
4	6.0	7/1.04	3.12	3.08	1.0	1.8	29.2	1638
20 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	20.3	583
2	2.5	7/0.67	2.01	7.41	0.8	1.8	23.0	847
3	4.0	7/0.85	2.55	4.61	1.0	1.8	28.3	1314
4	6.0	7/1.04	3.12	3.08	1.0	1.8	31.0	1757
24 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	22.5	694
2	2.5	7/0.67	2.01	7.41	0.8	1.8	25.5	1015
30 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	23.8	823
2	2.5	7/0.67	2.01	7.41	0.8	1.8	27.0	1214
34 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.8	25.6	933
2	2.5	7/0.67	2.01	7.41	0.8	1.9	29.3	1394
40 Core								
1	1.5	7/0.5	1.5	13.6	0.8	1.9	26.8	1103
2	2.5	7/0.67	2.01	7.41	0.8	1.9	30.6	1635

(*) Reference value: For design transportation, storage products. Not for evaluating the quality of products.
DAPHACO is also committed to providing customized cable solution to suit any customer standards and requirements.