CONTROL CABLE

CLASS 2, COPPER CONDUCTOR, PVC INSULATED, STEEL WIRES ARMOURED, PVC SHEATHED - DVV/SWA

Cu/PVC/PVC/SWA/PVC

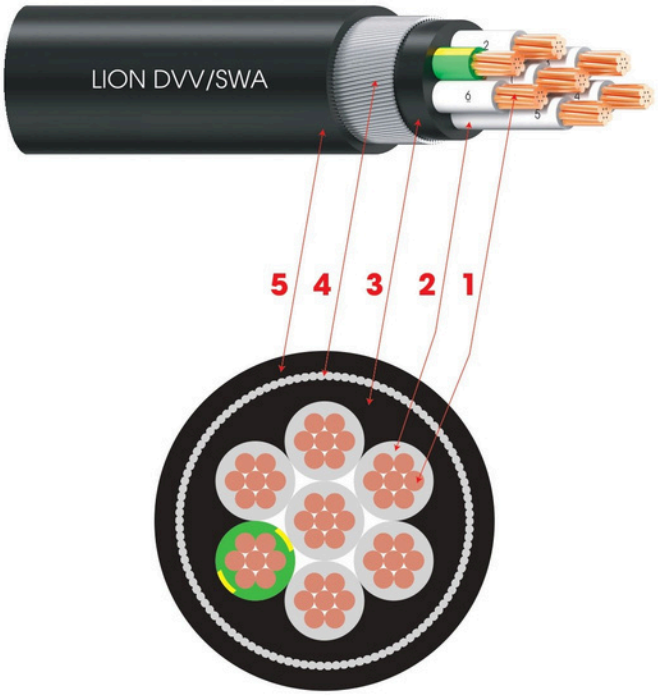
STANDARD:
- AS/NZS 5000.1
- AS/NZS 1125
- AS/NZS 3808

CONSTRUCTION:
- Conductor: Annealed copper wire (class 2)
- Insulation: PVC (Type 5V-90)
- Filler: PP (if necessary)
- Inner sheath: PVC (Type 5V-90)
- Armour: Steel wire armour
- 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: 3, 5, 7, 9, 11, 13, 26, 31, 36, 41.
- Outer sheath: Black or Orange

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:
- For control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where mechanical damage may occur.



1. ***Conductor: Copper***
2. ***Insulation: PVC (Type 5V-90)***
3. ***Inner sheathed: PVC (Type 5V-90)***
4. ***Armour: Steel wires armour***
5. ***Oversheathed: 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 dia. of steel wire armour	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm²	N°/mm	mm	Ω/km	mm	mm	mm	mm	kg/km
2 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	0.8	1.8	14.8	368
2	2.5	7/0.67	2.01	7.41	0.8	0.8	1.8	15.9	441
3	4.0	7/0.85	2.55	4.61	1.0	1.25	1.8	19.0	695
4	6.0	7/1.04	3.12	3.08	1.0	1.25	1.8	20.1	810
4 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	0.8	1.8	16.7	478
2	2.5	7/0.67	2.01	7.41	0.8	0.8	1.8	18.1	589
3	4.0	7/0.85	2.55	4.61	1.0	1.25	1.8	21.9	931
4	6.0	7/1.04	3.12	3.08	1.0	1.25	1.8	23.2	1089

No.	Conductor				Cable				
	Nominal Area	Number/ Nominal dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal insulation thickness	Nominal dia. of steel wire armour	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm^2	N°/mm	mm	Ω/km	mm	mm	mm	mm	kg/km
6 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	0.8	1.8	17.5	540
2	2.5	7/0.67	2.01	7.41	0.8	1.25	1.8	20.0	795
3	4.0	7/0.85	2.55	4.61	1.0	1.25	1.8	23.0	1078
4	6.0	7/1.04	3.12	3.08	1.0	1.6	1.8	25.3	1414
8 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.25	1.8	21.0	841
2	2.5	7/0.67	2.01	7.41	0.8	1.25	1.8	22.9	1046
3	4.0	7/0.85	2.55	4.61	1.0	1.6	1.8	27.5	1565
4	6.0	7/1.04	3.12	3.08	1.0	1.6	1.8	29.4	1873
10 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.25	1.8	21.6	881
2	2.5	7/0.67	2.01	7.41	0.8	1.25	1.8	23.6	1110
3	4.0	7/0.85	2.55	4.61	1.0	1.6	1.8	28.4	1686
4	6.0	7/1.04	3.12	3.08	1.0	1.6	1.8	30.5	2039
12 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.25	1.8	22.9	997
2	2.5	7/0.67	2.01	7.41	0.8	1.6	1.8	25.9	1386
3	4.0	7/0.85	2.55	4.61	1.0	1.6	1.8	30.8	1967
4	6.0	7/1.04	3.12	3.08	1.0	1.6	1.9	33.2	2382
25 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.6	1.8	29.0	1661
2	2.5	7/0.67	2.01	7.41	0.8	1.6	1.9	32.3	2167
30 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.6	1.8	31.3	1905
2	2.5	7/0.67	2.01	7.41	0.8	1.6	1.9	34.9	2486
35 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.6	1.9	32.4	2063
2	2.5	7/0.67	2.01	7.41	0.8	1.6	2.0	36.1	2704
40 Core + E									
1	1.5	7/0.5	1.5	13.6	0.8	1.6	1.9	34.5	2339
2	2.5	7/0.67	2.01	7.41	0.8	2.0	2.1	39.6	3339

(*) 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.