POWER CABLE

CLASS 2, POWER CABLE, (2+E), (3+E), (4+E) CORES, COPPER TAPE SCREENED, COPPER CONDUCTOR, XLPE INSULATED, PVC SHEATHED - CXV/Sc

Cu/XLPE/PVC/Sc/PVC

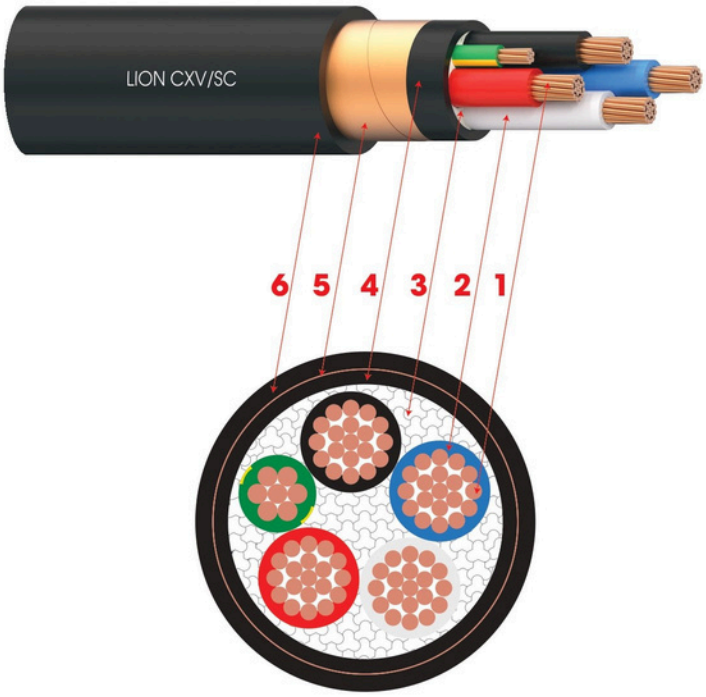
STANDARD:
- AS/NZS 5000.1
- AS/NZS 1125
- AS/NZS 3808

CONSTRUCTION:
- Conductor: Annealed copper wire (class 2)
- Insulation: XLPE (Type X-90)
- Inner sheath: PVC (Type 5V-90)
- Matallic screen: Single copper tape
- Sheath: PVC (Type 5V-90)

IDENTIFICATION:
- Insulation colours:
• 2C+E: Red, black + green/yellow (green with yellow stripes).
• 3C+E: Red, white, blue + green/yellow (green with yellow stripes).
• 4C+E: Red, white, blue, black + green/yellow (green with yellow stripes).
- 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 90°C.
- Maximum conductor temperature for short-circuit (5s maximum duration) is 250°C.
- Minimum bending radius: Installed cables: 12 x D (D: overall diameter of cable).

APPLICATION:
- 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: XLPE (Type X-90)
3. Filler: PP and PET tape wrapping or PVC (Type 5V-90)
4. Inner sheathed: PVC (Type 5V-90)
5. Metallic screen: Copper tape (Sc)
6. Oversheath: PVC (Type 5V-90)

No.	Conductor Core				Conductor E				Cable				
	Nominal Area	Number/ Nominal Dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal Area	Number/ Nominal Dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal insulation thickness Core	Nominal insulation thickness E	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm²	N°/mm	mm	Ω/km	mm²	N°/mm	mm	Ω/km	mm	mm	mm	mm	kg/km
2 Core + E													
1	2.5	7/0.67	2.0	7.41	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	13.4	268
2	4.0	7/0.85	2.6	4.61	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	14.3	318
3	6.0	7/1.04	3.1	3.08	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	15.0	372
4	10	7/1.32	4.0	1.83	4.0	7/0.85	2.6	4.61	0.7	0.7	1.8	17.6	507
5	16	7/1.67	5.0	1.15	6.0	7/1.04	3.1	3.08	0.7	0.7	1.8	19.4	674
6	25	19/1.26	6.3	0.727	6.0	7/1.04	3.1	3.08	0.9	0.7	1.8	21.9	891
7	35	19/1.49	7.5	0.524	10	7/1.32	4.0	1.83	0.9	0.7	1.8	24.3	1167
8	50	19/1.78	8.9	0.387	16	7/1.67	5.0	1.15	1.0	0.7	1.8	27.3	1566
9	70	19/2.1	10.5	0.268	25	19/1.26	6.3	0.727	1.1	0.9	1.9	31.6	2130

No.	Conductor Core				Conductor E				Cable				
	Nominal Area	Number/ Nominal Dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal Area	Number/ Nominal Dia. of wire	Nominal diameter (*)	Max. DC resistance at 20°C	Nominal insulation thickness Core	Nominal insulation thickness E	Nominal sheath thickness	Approx. Overall Diameter (*)	Approx. Weight (*)
	mm²	N°/mm	mm	Ω/km	mm²	N°/mm	mm	Ω/km	mm	mm	mm	mm	kg/km
3 Core + E													
1	2.5	7/0.67	2.0	7.41	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	14.3	310
2	4.0	7/0.85	2.6	4.61	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	15.4	379
3	6.0	7/1.04	3.1	3.08	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	16.3	456
4	10	7/1.32	4.0	1.83	4.0	7/0.85	2.6	4.61	0.7	0.7	1.8	19.1	633
5	16	7/1.67	5.0	1.15	6.0	7/1.04	3.1	3.08	0.7	0.7	1.8	21.2	861
6	25	19/1.26	6.3	0.727	6.0	7/1.04	3.1	3.08	0.9	0.7	1.8	24.5	1186
7	35	19/1.49	7.5	0.524	10	7/1.32	4.0	1.83	0.9	0.7	1.8	27.2	1558
8	50	19/1.78	8.9	0.387	16	7/1.67	5.0	1.15	1.0	0.7	1.9	31.1	2134
9	70	19/2.1	10.5	0.268	25	19/1.26	6.3	0.727	1.1	0.9	2.1	36.3	2932
10	95	37/1.76	12.3	0.193	25	19/1.26	6.3	0.727	1.1	0.9	2.2	39.9	3731
11	120	37/1.98	13.9	0.153	35	19/1.49	7.5	0.524	1.2	0.9	2.3	44.1	4646
12	150	37/2.21	15.5	0.124	50	19/1.78	8.9	0.387	1.4	1.0	2.5	49.9	5868
13	185	37/2.45	17.2	0.0991	70	19/2.10	10.5	0.268	1.6	1.1	2.6	55.1	7225
14	240	61/2.18	19.6	0.0754	95	37/1.76	12.3	0.193	1.7	1.1	2.8	62.0	9332
15	300	61/2.43	21.9	0.0601	120	37/1.98	13.9	0.153	1.8	1.2	3.0	68.0	11441
4 Core + E													
1	2.5	7/0.67	2.0	7.41	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	15.5	363
2	4.0	7/0.85	2.6	4.61	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	16.8	452
3	6.0	7/1.04	3.1	3.08	2.5	7/0.67	2.0	7.41	0.7	0.7	1.8	17.9	551
4	10	7/1.32	4.0	1.83	4.0	7/0.85	2.6	4.61	0.7	0.7	1.8	21.0	786
5	16	7/1.67	5.0	1.15	6.0	7/1.04	3.1	3.08	0.7	0.7	1.8	23.5	1080
6	25	19/1.26	6.3	0.727	6.0	7/1.04	3.1	3.08	0.9	0.7	1.8	27.4	1520
7	35	19/1.49	7.5	0.524	10	7/1.32	4.0	1.83	0.9	0.7	1.9	31.0	2026
8	50	19/1.78	8.9	0.387	16	7/1.67	5.0	1.15	1.0	0.7	2.0	35.6	2793
9	70	19/2.1	10.5	0.268	25	19/1.26	6.3	0.727	1.1	0.9	2.2	41.0	3781
10	95	37/1.76	12.3	0.193	25	19/1.26	6.3	0.727	1.1	0.9	2.3	45.4	4873
11	120	37/1.98	13.9	0.153	35	19/1.49	7.5	0.524	1.2	0.9	2.5	51.3	6194
12	150	37/2.21	15.5	0.124	50	19/1.78	8.9	0.387	1.4	1.0	2.7	57.0	7687
13	185	37/2.45	17.2	0.0991	70	19/2.10	10.5	0.268	1.6	1.1	2.8	63.2	9474
14	240	61/2.18	19.6	0.0754	95	37/1.76	12.3	0.193	1.7	1.1	3.0	70.6	12168
15	300	61/2.43	21.9	0.0601	120	37/1.98	13.9	0.153	1.8	1.2	3.2	77.5	14928

(*) 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.