강선(SWA/AWA) 외장 전력케이블

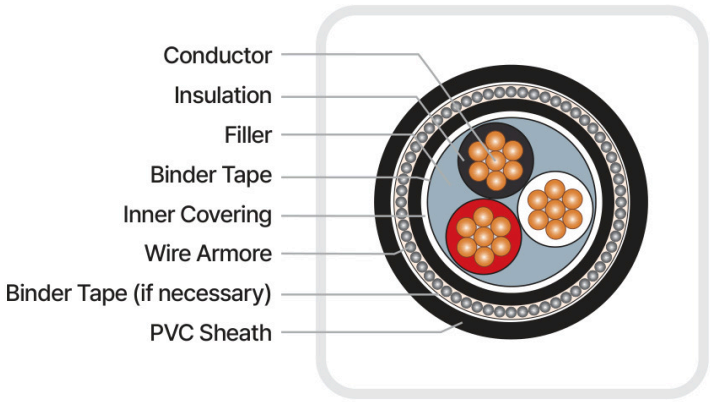
0.6/1kV XLPE / PVC / SWA(AWA) / PVC

구조도 · 재료 구성 · 1심(1 Core) 규격표

01 케이블 구성

- Class 2 연동 연선 동도체
- XLPE 절연 및 PP사 충전재
- PVC 압출 내피
- 단심: Al Wire Armour(AWA)
- 다심: Steel Wire Armour(SWA)
- 흑색 PVC 압출 외피

02 단면 구조도 | 원본 확대



사양 확인 안내

단심 AWA와 다심 SWA는 재질이 다릅니다. 주문 시 승인도면으로 외장 재질·구성을 확인해야 합니다.

03 1심 (1 Core) 규격표

공칭단면적 · 절연/내피 · 외장 · 외경 · 도체저항 · AC 시험전압 · 중량

1 Core

Conductor			insulation thickness	Inner covering thickness	Wire Armore (AWA) diameter	Outer sheath thickness	Approx. Overall diameter	Conductor resistance Max.at20	AC test voltage	Weght approx.
Nom. Area	construction	Diameter								
㎟	No./mm	mm	mm	mm	mm	mm	mm	Ω/km	Kv	kg/km
16	C.C	4.8	0.7	1.0	1.6	1.8	17	1.15	3.5	380
25	C.C	5.9	0.9	1.0	1.6	1.8	19	0.727	3.5	510
35	C.C	6.9	0.9	1.0	1.6	1.8	20	0.524	3.5	630
50	C.C	8.1	1.0	1.0	1.6	1.8	21	0.387	3.5	770
70	C.C	9.8	1.1	1.0	1.6	1.8	23	0.268	3.5	1010
95	C.C	11.4	1.1	1.0	1.6	1.8	25	0.193	3.5	1290
120	C.C	12.9	1.2	1.0	1.6	1.8	26	0.153	3.5	1570
150	C.C	14.4	1.4	1.0	1.6	1.8	28	0.124	3.5	1880
185	C.C	15.9	1.6	1.0	1.6	1.8	30	0.0991	3.5	2280
240	C.C	18.4	1.7	1.0	1.6	1.9	33	0.0754	3.5	2900
300	C.C	20.5	1.8	1.0	2.0	2.0	37	0.0601	3.5	3900

위 표는 원본 카탈로그의 수치를 그대로 인용했습니다. 표 안의 영문 머리글 및 단위 또한 원본 표기입니다.

규격표 | 2심 · 3심 · 4심

2 Core

Conductor			insulation thickness	Inner covering thickness	Wire Armore (AWA) diameter	Outer sheath thickness	Approx. Overall diameter	Conductor resistance Max.at20	AC test voltage	Weght approx.
Nom. Area	construction	Diameter								
㎟	No./mm	mm	mm	mm	mm	mm	mm	Ω/km	Kv	kg/km
1.5	7/0.53	1.59	0.7	1.0	0.8	1.8	16	12.1	3.5	380
2.5	7/0.67	2.01	0.7	1.0	0.8	1.8	17	7.41	3.5	430
4	7/0.85	2.55	0.7	1.0	0.8	1.8	18	4.61	3.5	500
6	7/1.04	3.12	0.7	1.0	0.8	1.8	19	3.08	3.5	580
10	7/1.35	4.05	0.7	1.0	1.25	1.8	22	1.83	3.5	750
16	C.C	4.8	0.7	1.0	1.25	1.8	23	1.15	3.5	910
25	C.C	5.9	0.9	1.0	1.6	1.8	27	0.727	3.5	1230
35	C.C	6.9	0.9	1.0	1.6	1.8	29	0.524	3.5	1500
50	C.C	8.1	1.0	1.0	1.6	1.8	32	0.387	3.5	1830
70	C.C	9.8	1.1	1.0	1.6	2.0	36	0.268	3.5	2430
95	C.C	11.4	1.1	1.2	2.0	2.1	41	0.193	3.5	2150
120	C.C	12.9	1.2	1.2	2.0	2.2	45	0.153	3.5	3800
150	C.C	14.4	1.4	1.2	2.0	2.3	49	0.124	3.5	4540
185	C.C	15.9	1.6	1.2	2.5	2.5	55	0.0991	3.5	5560
240	C.C	18.4	1.7	1.4	2.5	2.7	61	0.0754	3.5	7010

3 Core

Conductor			insulation thickness	Inner covering thickness	Wire Armore (AWA) diameter	Outer sheath thickness	Approx. Overall diameter	Conductor resistance Max.at20	AC test voltage	Weght approx.
Nom. Area	construction	Diameter								
㎟	No./mm	mm	mm	mm	mm	mm	mm	Ω/km	Kv	kg/km
1.5	7/0.53	1.59	0.7	1.0	0.8	1.8	16	12.1	3.5	420
2.5	7/0.67	2.01	0.7	1.0	0.8	1.8	17	7.41	3.5	480
4	7/0.85	2.55	0.7	1.0	0.8	1.8	18	4.61	3.5	570
6	7/1.04	3.12	0.7	1.0	0.8	1.8	20	3.08	3.5	670
10	7/1.35	4.05	0.7	1.0	1.25	1.8	22	1.83	3.5	880
16	C.C	4.8	0.7	1.0	1.25	1.8	24	1.15	3.5	1110
25	C.C	5.9	0.9	1.0	1.6	1.8	28	0.727	3.5	1510
35	C.C	6.9	0.9	1.0	1.6	1.8	30	0.524	3.5	1880
50	C.C	8.1	1.0	1.0	1.6	1.9	34	0.387	3.5	2360
70	C.C	9.8	1.1	1.2	2.0	2.0	40	0.268	3.5	3220
95	C.C	11.4	1.1	1.2	2.0	2.2	44	0.193	3.5	4160
120	C.C	12.9	1.2	1.2	2.0	2.3	48	0.153	3.5	5040
150	C.C	14.4	1.4	1.4	2.0	2.5	54	0.124	3.5	6170
185	C.C	15.9	1.6	1.4	2.5	2.6	58	0.0991	3.5	7480
240	C.C	18.4	1.7	1.6	2.5	2.8	65	0.0754	3.5	9540

4 Core

Conductor			insulation thickness	Inner covering thickness	Wire Armore (AWA) diameter	Outer sheath thickness	Approx. Overall diameter	Conductor resistance Max.at20	AC test voltage	Weght approx.
Nom. Area	construction	Diameter								
㎟	No./mm	mm	mm	mm	mm	mm	mm	Ω/km	Kv	kg/km
1.5	7/0.53	1.59	0.7	1.0	1.25	1.8	17	12.1	3.5	460
2.5	7/0.67	2.01	0.7	1.0	1.25	1.8	18	7.41	3.5	540
4	7/0.85	2.55	0.7	1.0	1.25	1.8	19	4.61	3.5	650
6	7/1.04	3.12	0.7	1.0	1.60	1.8	22	3.08	3.5	790
10	7/1.35	4.05	0.7	1.0	1.60	1.8	24	1.83	3.5	1040
16	C.C	4.8	0.7	1.0	1.6	1.8	27	1.15	3.5	1330
25	C.C	5.9	0.9	1.0	1.6	1.9	30	0.727	3.5	1850
35	C.C	6.9	0.9	1.0	2.0	2.1	33	0.524	3.5	2340
50	C.C	8.1	1.0	1.0	2.0	2.2	37	0.387	3.5	2940
70	C.C	9.8	1.1	1.2	2.0	2.4	43	0.268	3.5	4040
95	C.C	11.4	1.1	1.2	2.5	2.5	47	0.193	3.5	5240
120	C.C	12.9	1.2	1.4	2.5	2.7	54	0.153	3.5	6500
150	C.C	14.4	1.4	1.4	2.5	2.9	59	0.124	3.5	7820
185	C.C	15.9	1.6	1.4	2.5	3.1	64	0.0991	3.5	9560
240	C.C	18.4	1.7	1.6	2.5	3.3	72	0.0754	3.5	12230