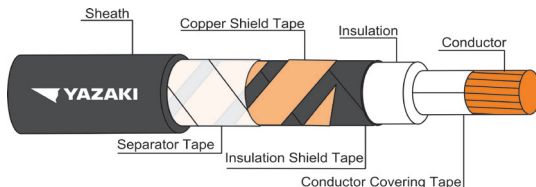


1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-1

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive tape
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic material
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 3,600 Volts
Rated voltage	: 1,800 Volts between Line to Earth : 3,000 Volts between Line to Line
AC Testing voltage	: 6,500 Volts
Reference standard	: IEC 60502-1, IEC 60228, IEC 60332-1

APPLICATION

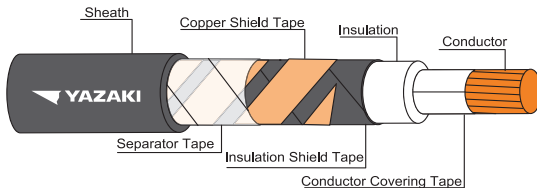
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MQ·km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	10	6	2.0	1.4	12.5	1.83	2,900	213	500
	16	6	2.0	1.4	13.5	1.15	2,450	280	500
	25	6	2.0	1.4	15.0	0.727	2,050	379	500
	35	6	2.0	1.4	16.0	0.524	1,800	479	500
	50	6	2.0	1.4	17.0	0.387	1,550	608	500
	70	12	2.0	1.5	19.0	0.268	1,350	827	500
	95	15	2.0	1.5	21.0	0.193	1,150	1087	500
	120	18	2.0	1.6	22.5	0.153	1,050	1351	500
	150	18	2.0	1.6	24.0	0.124	950	1621	500
	185	30	2.0	1.7	26.0	0.0991	850	1953	500
	240	34	2.0	1.8	28.5	0.0754	750	2556	500
	300	34	2.0	1.8	31.0	0.0601	700	3113	500
	400	53	2.0	2.0	34.0	0.0470	600	3961	500

1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-1



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive tape
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 3,600 Volts
Rated voltage	: 1,800 Volts between Line to Earth : 3,000 Volts between Line to Line
AC Testing voltage	: 6,500 Volts
Reference standard	: IEC 60502-1, IEC 60228, IEC 60332-1,

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

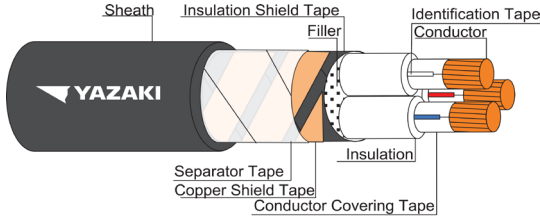
Number of core	Nominal cross sectional area (mm ²)	Current rating in free air at 40°C (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced 	Touching 	Trefoil 	Spaced	Trefoil	Spaced	Trefoil
1	10	100	81	79	88	82	79	76
	16	132	106	104	113	106	101	98
	25	173	140	136	145	136	129	125
	35	211	171	166	173	163	157	148
	50	255	207	201	205	192	185	175
	70	321	261	253	251	235	225	217
	95	395	321	311	301	281	275	264
	120	457	373	362	342	319	312	299
	150	522	426	413	384	358	349	334
	185	601	492	476	434	403	393	376
	240	716	587	567	504	466	465	443
	300	827	678	654	571	525	524	498
	400	963	791	762	650	592	595	563

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
1	10	2.3335	2.3335	2.3335	0.6258	0.4872	0.4410	0.1966	0.1531	0.1385	2.3418	2.3385	2.3376
	16	1.4664	1.4664	1.4664	0.5945	0.4559	0.4096	0.1868	0.1432	0.1287	1.4782	1.4734	1.4720
	25	0.9271	0.9271	0.9271	0.5669	0.4283	0.3820	0.1781	0.1346	0.1200	0.9441	0.9368	0.9348
	35	0.6683	0.6683	0.6683	0.5492	0.4106	0.3644	0.1725	0.1290	0.1145	0.6902	0.6806	0.6780
	50	0.4936	0.4937	0.4937	0.5223	0.3836	0.3374	0.1641	0.1205	0.1060	0.5202	0.5082	0.5050
	70	0.3420	0.3421	0.3422	0.5093	0.3706	0.3244	0.1600	0.1164	0.1019	0.3776	0.3614	0.3571
	95	0.2465	0.2466	0.2467	0.4940	0.3553	0.3091	0.1552	0.1116	0.0971	0.2913	0.2707	0.2651
	120	0.1956	0.1958	0.1959	0.4829	0.3443	0.2981	0.1517	0.1082	0.0937	0.2475	0.2237	0.2171
	150	0.1587	0.1590	0.1592	0.4749	0.3362	0.2900	0.1492	0.1056	0.0911	0.2178	0.1909	0.1834
	185	0.1271	0.1275	0.1277	0.4681	0.3295	0.2833	0.1471	0.1035	0.0890	0.1944	0.1642	0.1557
	240	0.0972	0.0976	0.0980	0.4595	0.3209	0.2747	0.1444	0.1008	0.0863	0.1740	0.1403	0.1306
	300	0.0779	0.0786	0.0791	0.4521	0.3135	0.2672	0.1420	0.0985	0.0839	0.1620	0.1260	0.1153
	400	0.0616	0.0624	0.0631	0.4478	0.3092	0.2630	0.1407	0.0971	0.0826	0.1536	0.1155	0.1040

1.8/3KV-CV

1.8/3(3.6)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-1

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Insulation	: Cross-Linked polyethylene (XLPE)
Filler	: Non-hygroscopic material
Insulation shield	: Semi-conductive tape
Core identification	: White, Red, Blue
Shield	: Copper tape
Separator tape	: Non-hygroscopic material
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 3,600 Volts
Rated voltage	: 1,800 Volts between Line to Earth : 3,000 Volts between Line to Line
AC Testing voltage	: 6,500 Volts
Reference standard	: IEC 60502-1, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

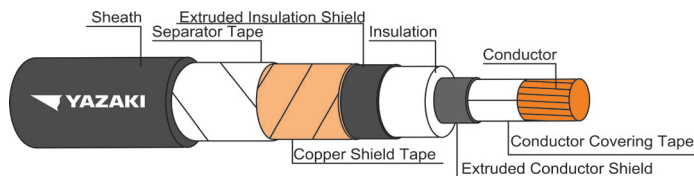
Number of cores	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	10	6	2.0	1.8	24.5	1.83	2,900	73	80	63	659	500
	16	6	2.0	1.8	27.0	1.15	2,450	96	103	81	873	500
	25	6	2.0	1.8	29.5	0.727	2,050	126	133	105	1184	500
	35	6	2.0	1.9	32.0	0.524	1,800	154	159	126	1512	500
	50	6	2.0	2.0	35.0	0.387	1,550	186	188	151	1929	500
	70	12	2.0	2.1	38.5	0.268	1,350	233	230	185	2617	500
	95	15	2.0	2.2	43.0	0.193	1,150	286	275	224	3447	500
	120	18	2.0	2.3	46.5	0.153	1,050	331	313	255	4279	500
	150	18	2.0	2.4	49.5	0.124	950	377	350	287	5145	500
	185	30	2.0	2.5	53.5	0.0991	850	434	395	327	6277	500
	240	34	2.0	2.7	59.0	0.0754	750	514	457	379	8089	500
	300	34	2.0	2.9	64.5	0.0601	700	589	513	432	9986	300
	400	53	2.0	3.1	70.5	0.0470	600	679	578	487	12561	300

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	2.3335	0.3685	0.1158	2.3364
	16	1.4665	0.3435	0.1079	1.4705
	25	0.9272	0.3222	0.1012	0.9327
	35	0.6684	0.3090	0.0971	0.6754
	50	0.4938	0.2868	0.0901	0.5020
	70	0.3423	0.2744	0.0862	0.3530
	95	0.2469	0.2640	0.0829	0.2605
	120	0.1962	0.2546	0.0800	0.2119
	150	0.1595	0.2493	0.0783	0.1777
	185	0.1281	0.2440	0.0767	0.1493
	240	0.0985	0.2359	0.0741	0.1233
	300	0.0797	0.2331	0.0732	0.1082
	400	0.0638	0.2288	0.0719	0.0961

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 7,200 Volts
Rated voltage	: 3,600 Volts between Line to Earth : 6,000 Volts between Line to Line
AC Testing voltage	: 12,500 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546
Remark	: *Insulation shield shall be applied semi-conductive tape (for size < 25 mm ²)

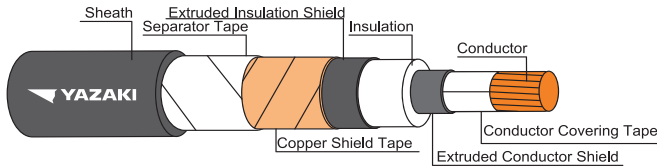
APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ-km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
1	10	6	2.5	1.4	15.0	1.83	2,850	267	500
	16	6	2.5	1.5	16.0	1.15	2,500	348	500
	25	6	2.5	1.5	18.5	0.727	2,150	479	500
	35	6	2.5	1.5	19.5	0.524	1,900	586	500
	50	6	2.5	1.6	21.0	0.387	1,700	731	500
	70	12	2.5	1.6	22.5	0.268	1,500	950	500
	95	15	2.5	1.7	24.5	0.193	1,300	1233	500
	120	18	2.5	1.7	26.0	0.153	1,200	1499	500
	150	18	2.5	1.8	27.5	0.124	1,100	1790	500
	185	30	2.5	1.8	29.5	0.0991	1,000	2124	500
	240	34	2.6	1.9	32.5	0.0754	900	2723	500
	300	34	2.8	2.0	35.0	0.0601	900	3361	500
	400	53	3.0	2.1	38.5	0.0470	850	4241	500
	500	53	3.2	2.2	42.5	0.0366	800	5380	500
	630	53	3.2	2.4	46.5	0.0283	700	6795	500
	800	53	3.2	2.5	50.5	0.0221	600	8400	500
	1000	53	3.2	2.7	56.0	0.0176	550	10849	300

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic material
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 7,200 Volts
Rated voltage	: 3,600 Volts between Line to Earth : 6,000 Volts between Line to Line
AC Testing voltage	: 12,500 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546
Remark	: *Insulation shield shall be applied semi-conductive tape (for size < 25 mm ²)

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	10	100	83	81	88	83	79	76
	16	132	109	107	114	107	103	100
	25	175	145	142	145	137	132	127
	35	213	177	172	174	164	157	152
	50	256	213	208	206	193	185	178
	70	321	267	259	252	236	230	221
	95	393	327	318	302	282	275	264
	120	455	379	368	343	320	311	299
	150	518	432	419	385	359	356	340
	185	597	498	484	435	405	401	383
	240	710	594	575	505	469	464	443
	300	822	688	666	572	527	536	509
	400	960	804	777	652	597	610	577
	500	1126	943	908	744	675	707	666
	630	1308	1094	1048	847	756	802	750
	800	1504	1251	1191	952	835	921	856
	1000	1720	1422	1343	1058	909	1020	936

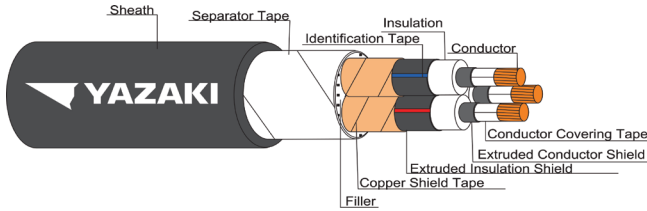
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	10	2.3335	2.3335	2.3335	0.6541	0.5155	0.4693	0.2055	0.1619	0.1474	2.3425	2.3391	2.3382
	16	1.4664	1.4664	1.4664	0.6260	0.4873	0.4411	0.1967	0.1531	0.1386	1.4795	1.4744	1.4729
	25	0.9271	0.9271	0.9271	0.6052	0.4665	0.4203	0.1901	0.1466	0.1320	0.9464	0.9386	0.9365
	35	0.6683	0.6683	0.6683	0.5863	0.4477	0.4015	0.1842	0.1406	0.1261	0.6932	0.6829	0.6801
	50	0.4936	0.4937	0.4937	0.5578	0.4191	0.3729	0.1752	0.1317	0.1171	0.5238	0.5110	0.5074
	70	0.3420	0.3422	0.3422	0.5377	0.3990	0.3528	0.1689	0.1253	0.1108	0.3814	0.3643	0.3597
	95	0.2465	0.2466	0.2467	0.5217	0.3831	0.3369	0.1639	0.1204	0.1059	0.2960	0.2744	0.2684
	120	0.1956	0.1958	0.1959	0.5072	0.3686	0.3223	0.1593	0.1158	0.1013	0.2523	0.2275	0.2205
	150	0.1587	0.1590	0.1592	0.4992	0.3606	0.3144	0.1568	0.1133	0.0988	0.2231	0.1952	0.1874
	185	0.1271	0.1275	0.1277	0.4915	0.3529	0.3067	0.1544	0.1109	0.0964	0.2000	0.1690	0.1600
	240	0.0972	0.0976	0.0978	0.4821	0.3435	0.2973	0.1515	0.1079	0.0934	0.1800	0.1455	0.1352
	300	0.0779	0.0784	0.0788	0.4772	0.3386	0.2924	0.1499	0.1064	0.0919	0.1689	0.1321	0.1210
	400	0.0616	0.0622	0.0627	0.4719	0.3332	0.2870	0.1483	0.1047	0.0902	0.1605	0.1218	0.1098
	500	0.0487	0.0495	0.0502	0.4672	0.3286	0.2823	0.1468	0.1032	0.0887	0.1546	0.1145	0.1019
	630	0.0386	0.0397	0.0406	0.4599	0.3213	0.2751	0.1445	0.1009	0.0864	0.1495	0.1085	0.0955
	800	0.0313	0.0327	0.0339	0.4528	0.3142	0.2680	0.1423	0.0987	0.0842	0.1457	0.1040	0.0908
	1000	0.0262	0.0279	0.0293	0.4445	0.3059	0.2596	0.1396	0.0961	0.0816	0.1421	0.1001	0.0867

3.6/6KV-CV

3.6/6(7.2)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

- Conductor** : Compacted stranded annealed copper wire
- Conductor shield** : Semi-conductive Cross-linked polyethylene compound
- Insulation** : Cross-Linked polyethylene (XLPE)
- Insulation shield** : Semi-conductive Cross-linked polyethylene compound
- Core identification** : White, Red, Blue
- Shield** : Copper tape
- Filler** : Non-hygroscopic material
- Separator tape** : Non-hygroscopic tape
- Sheath** : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 7,200 Volts
- Rated voltage** : 3,600 Volts between Line to Earth
: 6,000 Volts between Line to Line
- AC Testing voltage** : 12,500 Volts
- Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1
- Remark** : *Insulation shield shall be applied semi-conductive tape (for size < 25 mm²)

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard Length (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	10	6	2.5	2.0	29.5	1.83	2,850	81	85	65	801	500
	16	6	2.5	2.0	31.5	1.15	2,500	106	108	83	1108	500
	25	6	2.5	2.1	36.5	0.727	2,150	139	139	109	1548	500
	35	6	2.5	2.2	38.5	0.524	1,900	170	174	130	1900	500
	50	6	2.5	2.3	41.5	0.387	1,700	203	195	153	2361	500
	70	12	2.5	2.4	45.5	0.268	1,500	252	238	189	3088	500
	95	15	2.5	2.5	49.5	0.193	1,300	308	284	227	3979	500
	120	18	2.5	2.6	53.0	0.153	1,200	355	322	260	4850	500
	150	18	2.5	2.8	56.5	0.124	1,100	402	360	292	5773	500
	185	30	2.5	2.9	61.0	0.0991	1,000	461	406	329	6984	500
	240	34	2.6	3.1	67.5	0.0754	900	545	470	386	8920	300
	300	34	2.8	3.3	73.5	0.0601	900	625	529	434	10975	300
	400	53	3.0	3.5	80.5	0.0470	850	724	598	496	13719	300

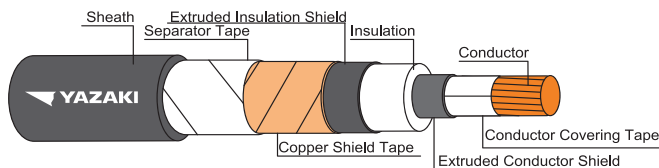
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	10	2.3335	0.4117	0.1293	2.3371
	16	1.4665	0.3827	0.1202	1.4714
	25	0.9272	0.3694	0.1161	0.9344
	35	0.6684	0.3529	0.1109	0.6775
	50	0.4938	0.3265	0.1026	0.5043
	70	0.3423	0.3102	0.0975	0.3559
	95	0.2469	0.2962	0.0931	0.2639
	120	0.1960	0.2843	0.0893	0.2154
	150	0.1593	0.2770	0.0870	0.1815
	185	0.1278	0.2721	0.0855	0.1538
	240	0.0981	0.2646	0.0831	0.1286
	300	0.0792	0.2606	0.0819	0.1139
	400	0.0632	0.2570	0.0807	0.1025

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 12,000 Volts
Rated voltage	: 6,000 Volts between Line to Earth : 10,000 Volts between Line to Line
AC Testing voltage	: 21,000 volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

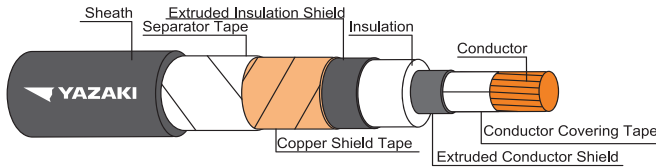
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Cable weight approx. (kg/km)	Standard Length per drum (m)
1	16	6	3.4	1.5	19.0	1.15	3,100	438	500
	25	6	3.4	1.6	20.5	0.727	2,700	557	500
	35	6	3.4	1.6	21.5	0.524	2,450	668	500
	50	6	3.4	1.7	23.0	0.387	2,200	819	500
	70	12	3.4	1.7	24.5	0.268	1,900	1044	500
	95	15	3.4	1.8	26.5	0.193	1,700	1335	500
	120	18	3.4	1.8	28.0	0.153	1,550	1607	500
	150	18	3.4	1.9	29.5	0.124	1,450	1904	500
	185	30	3.4	1.9	31.5	0.0991	1,300	2246	500
	240	34	3.4	2.0	34.0	0.0754	1,150	2846	500
	300	34	3.4	2.1	36.5	0.0601	1,050	3471	500
	400	53	3.4	2.2	39.5	0.0470	950	4336	500
	500	53	3.4	2.3	43.0	0.0366	850	5458	500
	630	53	3.4	2.4	47.0	0.0283	750	6860	500
	800	53	3.4	2.5	51.0	0.0221	650	8472	500
	1000	53	3.4	2.6	56.5	0.0176	600	11010	300

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

- Conductor** : Compacted stranded annealed copper wire
- Conductor shield** : Semi-conductive Cross-linked polyethylene compound
- Insulation** : Cross-Linked polyethylene (XLPE)
- Insulation shield** : Semi-conductive Cross-linked polyethylene compound
- Insulation color** : Natural (Translucent)
- Shield** : Copper tape
- Separator tape** : Non-hygroscopic tape
- Sheath** : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 12,000 Volts
- Rated voltage** : 6,000 Volts between Line to Earth
: 10,000 Volts between Line to Line
- AC Testing voltage** : 21,000 Volts
- Reference standard** : IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Current rating in free air at 40°C (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced 	Touching 	Trefoil 	Spaced	Trefoil	Spaced	Trefoil
1	16	135	114	112	114	107	103	100
	25	177	150	146	146	137	132	127
	35	216	182	177	174	164	160	154
	50	260	219	213	206	193	189	181
	70	324	273	265	252	236	230	221
	95	397	334	325	302	282	274	263
	120	459	386	375	343	321	317	304
	150	521	439	426	385	359	355	340
	185	601	506	492	435	405	401	383
	240	713	601	583	506	469	464	442
	300	820	692	670	572	528	536	509
	400	954	804	777	652	597	609	576
	500	1116	939	905	744	675	706	665
	630	1299	1090	1045	847	756	802	750
	800	1494	1247	1188	952	835	920	855
	1000	1708	1417	1340	1058	909	1019	935

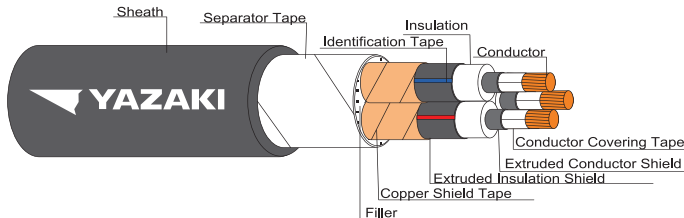
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil	Spaced	Touching	Trefoil
1	16	1.4654	1.4654	1.4664	0.5597	0.5210	0.4748	0.2073	0.1637	0.1452	1.4810	1.4755	1.4740
	25	0.9271	0.9271	0.9271	0.6295	0.4908	0.4446	0.1978	0.1542	0.1397	0.9480	0.9398	0.9376
	35	0.6683	0.6683	0.6683	0.6093	0.4707	0.4244	0.1914	0.1479	0.1333	0.6952	0.6845	0.6815
	50	0.4936	0.4937	0.4937	0.5792	0.4406	0.3944	0.1820	0.1384	0.1239	0.5261	0.5127	0.5090
	70	0.3420	0.3421	0.3422	0.5576	0.4190	0.3728	0.1752	0.1316	0.1171	0.3843	0.3666	0.3617
	95	0.2465	0.2466	0.2467	0.5401	0.4015	0.3553	0.1697	0.1261	0.1116	0.2993	0.2770	0.2708
	120	0.1956	0.1958	0.1959	0.5245	0.3859	0.3397	0.1648	0.1212	0.1067	0.2558	0.2303	0.2231
	150	0.1587	0.1590	0.1590	0.5156	0.3770	0.3307	0.1620	0.1184	0.1039	0.2268	0.1983	0.1899
	185	0.1271	0.1273	0.1275	0.5068	0.3681	0.3219	0.1592	0.1156	0.1011	0.2037	0.1720	0.1627
	240	0.0972	0.0974	0.0978	0.4955	0.3569	0.3107	0.1557	0.1121	0.0976	0.1835	0.1485	0.1382
	300	0.0779	0.0784	0.0788	0.4868	0.3482	0.3020	0.1529	0.1094	0.0949	0.1716	0.1346	0.1233
	400	0.0616	0.0622	0.0627	0.4781	0.3394	0.2932	0.1502	0.1066	0.0921	0.1623	0.1234	0.1114
	500	0.0487	0.0495	0.0502	0.4709	0.3323	0.2861	0.1479	0.1044	0.0899	0.1557	0.1155	0.1029
	630	0.0386	0.0397	0.0406	0.4625	0.3239	0.2776	0.1453	0.1018	0.0872	0.1503	0.1092	0.0962
	800	0.0313	0.0327	0.0339	0.4552	0.3166	0.2703	0.1430	0.0995	0.0849	0.1464	0.1047	0.0914
	1000	0.0262	0.0279	0.0293	0.4466	0.3080	0.2618	0.1403	0.0968	0.0822	0.1427	0.1007	0.0873

6/10KV-CV

6/10(12)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

- Conductor** : Compacted stranded annealed copper wire
- Conductor shield** : Semi-conductive Cross-linked polyethylene compound
- Insulation** : Cross-Linked polyethylene (XLPE)
- Insulation shield** : Semi-conductive Cross-linked polyethylene compound
- Core identification** : White, Red, Blue
- Shield** : Copper tape
- Filler** : Non-hygroscopic material
- Separator tape** : Non-hygroscopic tape
- Sheath** : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 12,000 Volts
- Rated voltage** : 6,000 Volts between Line to Earth
: 10,000 Volts between Line to Line
- AC Testing voltage** : 21,000 Volts
- Reference standard** : IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	16	6	3.4	2.2	38.0	1.15	3,100	109	108	86	1454	500
	25	6	3.4	2.2	40.5	0.727	2,700	142	139	110	1821	500
	35	6	3.4	2.3	43.0	0.524	2,450	173	166	132	2186	500
	50	6	3.4	2.4	46.0	0.387	2,200	207	196	156	2664	500
	70	12	3.4	2.6	49.5	0.268	1,900	257	239	191	3432	500
	95	15	3.4	2.7	54.0	0.193	1,700	313	285	231	4347	500
	120	18	3.4	2.8	57.5	0.153	1,550	360	323	262	5239	500
	150	18	3.4	2.9	60.5	0.124	1,450	407	361	293	6172	500
	185	30	3.4	3.0	65.0	0.0991	1,300	467	408	335	7425	300
	240	34	3.4	3.2	71.0	0.0754	1,150	549	471	388	9350	300
	300	34	3.4	3.3	76.0	0.0601	1,050	628	529	441	11312	300
	400	53	3.4	3.5	82.0	0.0470	950	721	597	497	13990	300

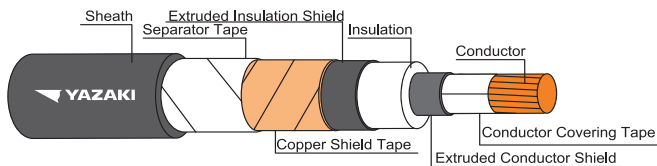
Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	16	1.4665	0.4267	0.1341	1.4726
	25	0.9272	0.3977	0.1249	0.9356
	35	0.6684	0.3803	0.1195	0.6790
	50	0.4938	0.3511	0.1103	0.5090
	70	0.3421	0.3327	0.1045	0.3577
	95	0.2467	0.3167	0.0995	0.2660
	120	0.1960	0.3034	0.0953	0.2179
	150	0.1593	0.2950	0.0927	0.1843
	185	0.1278	0.2886	0.0907	0.1567
	240	0.0981	0.2782	0.0874	0.1314
	300	0.0790	0.2705	0.0850	0.1160
	400	0.0632	0.2630	0.0826	0.1040

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 17,500 Volts
Rated voltage	: 8,700 Volts between Line to Earth : 15,000 Volts between Line to Line
AC Testing voltage	: 30,500 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

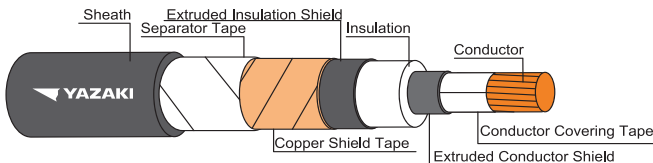
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	25	6	4.5	1.6	22.5	0.727	3,300	635	500
	35	6	4.5	1.7	23.5	0.524	3,000	758	500
	50	6	4.5	1.7	25.0	0.387	2,700	905	500
	70	12	4.5	1.8	27.0	0.268	2,400	1146	500
	95	15	4.5	1.8	28.5	0.193	2,100	1432	500
	120	18	4.5	1.9	30.5	0.153	1,950	1722	500
	150	18	4.5	1.9	31.5	0.124	1,800	2012	500
	185	30	4.5	2.0	34.0	0.0991	1,650	2374	500
	240	34	4.5	2.1	36.5	0.0754	1,500	2984	500
	300	34	4.5	2.1	39.0	0.0601	1,350	3602	500
	400	53	4.5	2.2	41.5	0.0470	1,200	4476	500
	500	53	4.5	2.3	45.5	0.0366	1,100	5611	500
	630	53	4.5	2.4	49.0	0.0283	950	7025	500
	800	53	4.5	2.6	53.5	0.0221	850	8672	500
	1000	53	4.5	2.7	59.0	0.0176	750	11150	300

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 17,500 Volts
Rated voltage	: 8,700 Volts between Line to Earth : 15,000 Volts between Line to Line
AC Testing voltage	: 30,500 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced 	Touching 	Trefoil 	Spaced	Trefoil	Spaced	Trefoil
1	25	177	151	148	146	137	134	129
	35	215	184	179	174	164	160	154
	50	258	220	215	206	194	188	181
	70	322	275	268	252	236	234	224
	95	394	336	327	301	283	279	268
	120	454	388	377	343	321	317	303
	150	517	441	429	385	360	354	339
	185	595	508	494	435	406	400	382
	240	705	602	584	506	470	474	451
	300	805	688	667	572	529	534	508
	400	935	798	773	652	599	608	575
	500	1093	932	900	744	677	705	664
	630	1272	1081	1039	847	760	800	748
	800	1460	1235	1181	953	840	918	853
	1000	1669	1403	1331	1059	916	1016	932

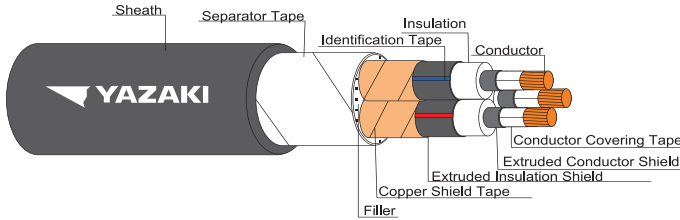
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	25	0.9271	0.9271	0.9271	0.6511	0.5125	0.4663	0.2045	0.1610	0.1465	0.9494	0.9410	0.9386
	35	0.6683	0.6683	0.6683	0.6316	0.4930	0.4467	0.1984	0.1549	0.1403	0.6971	0.6860	0.6829
	50	0.4936	0.4937	0.4937	0.5986	0.4600	0.4138	0.1881	0.1445	0.1300	0.5282	0.5144	0.5105
	70	0.3420	0.3421	0.3422	0.5773	0.4387	0.3925	0.1814	0.1378	0.1233	0.3871	0.3688	0.3637
	95	0.2465	0.2466	0.2467	0.5569	0.4183	0.3721	0.1750	0.1314	0.1169	0.3023	0.2794	0.2730
	120	0.1956	0.1958	0.1957	0.5418	0.4032	0.3570	0.1702	0.1267	0.1122	0.2593	0.2332	0.2256
	150	0.1587	0.1588	0.1590	0.5307	0.3921	0.3459	0.1667	0.1232	0.1087	0.2302	0.2010	0.1926
	185	0.1271	0.1273	0.1275	0.5227	0.3841	0.3379	0.1642	0.1207	0.1062	0.2077	0.1754	0.1659
	240	0.0972	0.0974	0.0976	0.5097	0.3711	0.3249	0.1601	0.1166	0.1021	0.1873	0.1519	0.1412
	300	0.0779	0.0782	0.0785	0.4991	0.3604	0.3142	0.1568	0.1132	0.0987	0.1751	0.1376	0.1261
	400	0.0616	0.0620	0.0624	0.4895	0.3508	0.3046	0.1538	0.1102	0.0957	0.1657	0.1264	0.1142
	500	0.0487	0.0494	0.0500	0.4814	0.3427	0.2965	0.1512	0.1077	0.0931	0.1589	0.1185	0.1057
	630	0.0386	0.0396	0.0404	0.4721	0.3335	0.2872	0.1483	0.1048	0.0902	0.1533	0.1120	0.0989
	800	0.0313	0.0325	0.0335	0.4648	0.3262	0.2799	0.1480	0.1025	0.0879	0.1493	0.1075	0.0941
	1000	0.0262	0.0277	0.0289	0.4553	0.3167	0.2704	0.1430	0.0995	0.0849	0.1454	0.1033	0.0897

8.7/15KV-CV

8.7/15(17.5)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

- Conductor** : Compacted stranded annealed copper wire
- Conductor shield** : Semi-conductive Cross-linked polyethylene compound
- Insulation** : Cross-Linked polyethylene (XLPE)
- Insulation shield** : Semi-conductive Cross-linked polyethylene compound
- Core identification** : White, Red, Blue
- Shield** : Copper tape
- Filler** : Non-hygroscopic material
- Separator tape** : Non-hygroscopic tape
- sheath** : Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C
: Circuit voltage not exceeding 17,500 Volts
- Rated voltage** : 8,700 Volts between Line to Earth
: 15,000 Volts between Line to Line
- AC Testing voltage** : 30,500 Volts
- Reference standard** : IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

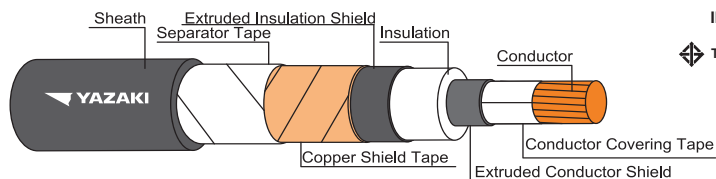
Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MQ.km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard Length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	25	6	4.5	2.4	45.5	0.727	3,300	142	137	112	2136	500
	35	6	4.5	2.5	48.0	0.524	3,000	173	165	134	2531	500
	50	6	4.5	2.6	51.0	0.387	2,700	208	195	159	3026	500
	70	12	4.5	2.7	54.5	0.268	2,400	258	238	194	3795	500
	95	15	4.5	2.8	59.0	0.193	2,100	314	284	232	4744	500
	120	18	4.5	2.9	62.5	0.153	1,950	362	323	267	5658	500
	150	18	4.5	3.1	66.0	0.124	1,800	409	361	299	6665	500
	185	30	4.5	3.2	70.5	0.0991	1,650	468	407	337	7909	300
	240	34	4.5	3.4	76.0	0.0754	1,500	551	470	393	9883	300
	300	34	4.5	3.5	81.0	0.0601	1,350	629	529	443	11893	300
	400	53	4.5	3.7	87.0	0.0470	1,200	722	598	505	14605	300

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	25	0.9272	0.4248	0.1335	0.9368
	35	0.6684	0.4057	0.1275	0.6804
	50	0.4938	0.3749	0.1178	0.5077
	70	0.3421	0.3546	0.1114	0.3598
	95	0.2467	0.3369	0.1058	0.2684
	120	0.1968	0.3223	0.1013	0.2204
	150	0.1591	0.3129	0.0983	0.1870
	185	0.1276	0.3053	0.0969	0.1596
	240	0.0978	0.2935	0.0922	0.1344
	300	0.0788	0.2848	0.0895	0.1192
	400	0.0628	0.2762	0.0868	0.1071

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

TIS 2143-2546

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 24,000 Volts
Rated voltage	: 12,000 Volts between Line to Earth : 20,000 Volts between Line to Line
AC Testing voltage	: 42,000 volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546

B

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

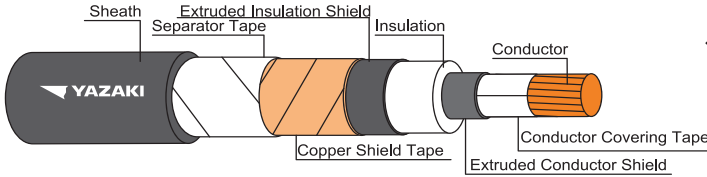
Number of core	Nominal cross sectional area	Number of wires minimum	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Cable weight approx.	Standard Length per drum
	(mm ²)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(kg/km)	(m)
1	35	6	5.5	1.8	26.0	0.524	3,460	849	500
	50	6	5.5	1.8	27.0	0.387	3,130	1000	500
	70	12	5.5	1.8	29.0	0.268	2,790	1236	500
	95	15	5.5	1.9	31.0	0.193	2,500	1540	500
	120	18	5.5	2.0	32.5	0.153	2,290	1835	500
	150	18	5.5	2.0	34.0	0.124	2,130	2130	500
	185	30	5.5	2.1	36.0	0.0991	1,970	2499	500
	240	34	5.5	2.1	38.5	0.0754	1,770	3102	500
	300	34	5.5	2.2	41.0	0.0601	1,620	3744	500
	400	53	5.5	2.3	44.0	0.0470	1,480	4627	500
	500	53	5.5	2.4	47.5	0.0366	1,320	5775	500
	630	53	5.5	2.5	51.5	0.0283	1,190	7202	500
	800	53	5.5	2.6	55.5	0.0221	1,070	8841	500
	1000	53	5.5	2.8	61.0	0.0176	940	11361	300

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2

TIS 2143-2546



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 24,000 Volts
Rated voltage	: 12,000 Volts between Line to Earth : 20,000 Volts between Line to Line
AC Testing voltage	: 42,000 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1 TIS 2143-2546

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm ²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	35	210	183	179	174	164	160	154
	50	253	219	214	206	194	192	184
	70	315	273	266	252	237	233	224
	95	385	333	325	302	283	279	267
	120	445	385	375	343	321	316	303
	150	506	438	426	385	360	354	338
	185	581	503	490	435	406	408	389
	240	689	595	579	506	470	473	450
	300	792	684	665	572	529	533	507
	400	920	794	770	653	600	618	585
	500	1066	920	890	744	678	703	662
	630	1241	1067	1028	848	762	816	764
	800	1423	1221	1169	954	844	916	851
	1000	1628	1385	1318	1060	920	1043	963

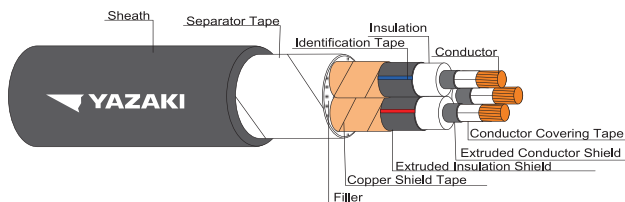
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	35	0.6683	0.6683	0.6683	0.6493	0.5107	0.4645	0.2040	0.1604	0.1459	0.6987	0.6873	0.6840
	50	0.4936	0.4937	0.4937	0.6155	0.4769	0.4307	0.1934	0.1498	0.1353	0.5301	0.5159	0.5119
	70	0.3420	0.3421	0.3420	0.5918	0.4531	0.4069	0.1859	0.1423	0.1278	0.3893	0.3705	0.3651
	95	0.2465	0.2466	0.2467	0.5718	0.4332	0.3870	0.1796	0.1361	0.1216	0.3050	0.2817	0.2750
	120	0.1956	0.1956	0.1957	0.5565	0.4179	0.3716	0.1748	0.1313	0.1167	0.2623	0.2356	0.2279
	150	0.1587	0.1588	0.1590	0.5448	0.4061	0.3599	0.1712	0.1276	0.1131	0.2334	0.2037	0.1951
	185	0.1271	0.1273	0.1275	0.5353	0.3967	0.3505	0.1682	0.1246	0.1101	0.2108	0.1781	0.1685
	240	0.0972	0.0974	0.0976	0.5204	0.3818	0.3355	0.1635	0.1199	0.1054	0.1902	0.1545	0.1436
	300	0.0779	0.0782	0.0785	0.5101	0.3715	0.3253	0.1603	0.1167	0.1022	0.1782	0.1405	0.1289
	400	0.0614	0.0620	0.0624	0.4998	0.3612	0.3150	0.1570	0.1135	0.0990	0.1686	0.1293	0.1170
	500	0.0487	0.0494	0.0498	0.4908	0.3522	0.3060	0.1542	0.1106	0.0961	0.1617	0.1212	0.1083
	630	0.0386	0.0396	0.0402	0.4909	0.3422	0.2960	0.1542	0.1075	0.0930	0.1590	0.1146	0.1013
	800	0.0313	0.0325	0.0333	0.4722	0.3335	0.2873	0.1483	0.1048	0.0903	0.1516	0.1097	0.0962
	1000	0.0262	0.0277	0.0287	0.4626	0.3240	0.2778	0.1453	0.1018	0.0873	0.1477	0.1055	0.0919

12/20KV-CV

12/20(24)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE

IEC 60502-2



CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Core identification	: White, Red, Blue
Shield	: Copper tape
Filler	: Non-hygroscopic material
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 24,000 Volts
Rated voltage	: 12,000 Volts between Line to Earth : 20,000 Volts between Line to Line
AC Testing voltage	: 42,000 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

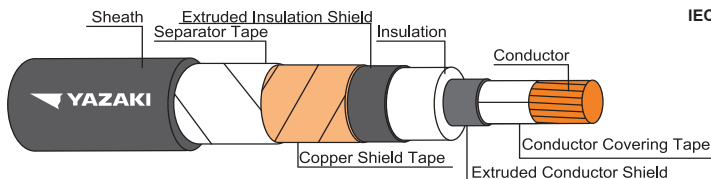
Number of core	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Maximum Current Rating			Cable weight approx. (kg/km)	Standard Length per drum (m)
								In air at 40°C (A)	Direct burial at 30°C (A)	Underground duct at 30°C (A)		
3	35	6	5.5	2.7	52.5	0.524	3,460	169	161	136	2865	500
	50	6	5.5	2.8	56.0	0.387	3,130	204	191	160	3382	500
	70	12	5.5	2.9	59.5	0.268	2,790	254	234	195	4178	500
	95	15	5.5	3.0	64.0	0.193	2,500	311	281	236	5167	500
	120	18	5.5	3.1	67.5	0.153	2,290	358	319	268	6109	500
	150	18	5.5	3.2	70.5	0.124	2,130	405	358	300	7093	300
	185	30	5.5	3.3	75.0	0.0991	1,970	463	404	342	8376	300
	240	34	5.5	3.5	80.5	0.0754	1,770	546	468	395	10379	300
	300	34	5.5	3.7	86.0	0.0601	1,620	622	526	448	12449	300
	400	53	5.5	3.9	92.0	0.0470	1,480	715	595	506	15203	200

Remark : Thermal resistivity of soil 1.2 K.m./W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
3	35	0.6684	0.4254	0.1336	0.6816
	50	0.4938	0.3935	0.1236	0.5090
	70	0.3421	0.3720	0.1169	0.3615
	95	0.2467	0.3530	0.1109	0.2705
	120	0.1958	0.3375	0.1060	0.2227
	150	0.1591	0.3273	0.1028	0.1894
	185	0.1276	0.3187	0.1001	0.1622
	240	0.0978	0.3059	0.0961	0.1371
	300	0.0788	0.2964	0.0931	0.1220
	400	0.0628	0.2870	0.0902	0.1099

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Insulation color	: Natural (Translucent)
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 36,000 Volts
Rated voltage	: 18,000 Volts between Line to Earth : 30,000 Volts between Line to Line
AC Testing voltage	: 63,000 volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

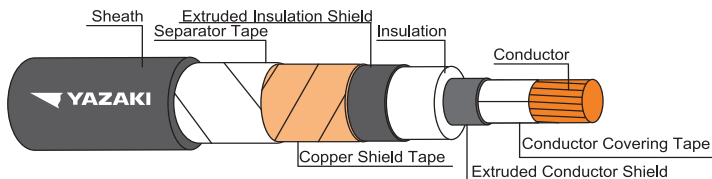
APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of cores	Nominal cross sectional area (mm ²)	Number of wires minimum (No.)	Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter approx. (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 20°C minimum (MΩ·km)	Cable weight approx. (kg/km)	Standard length per drum (m)
1	50	6	8.0	2.0	32.5	0.387	4,010	1264	500
	70	12	8.0	2.0	34.5	0.268	3,620	1513	500
	95	15	8.0	2.1	36.5	0.193	3,260	1834	500
	120	18	8.0	2.1	38.0	0.153	3,020	2128	500
	150	18	8.0	2.2	39.5	0.124	2,820	2450	500
	185	30	8.0	2.2	41.5	0.0991	2,620	2820	500
	240	34	8.0	2.3	44.0	0.0754	2,370	3460	500
	300	34	8.0	2.4	46.5	0.0601	2,190	4122	500
	400	53	8.0	2.5	49.0	0.0470	2,000	5029	500
	500	53	8.0	2.6	53.0	0.0366	1,800	6208	500
	630	53	8.0	2.7	57.0	0.0283	1,630	7667	500
	800	53	8.0	2.8	61.0	0.0221	1,480	9338	300
	1000	53	8.0	3.0	67.0	0.0176	1,300	11922	300

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Shield	: Copper tape
Separator tape	: Non-hygroscopic tape
Sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 36,000 Volts
Rated voltage	: 18,000 Volts between Line to Earth : 30,000 Volts between Line to Line
AC Testing voltage	: 63,000 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

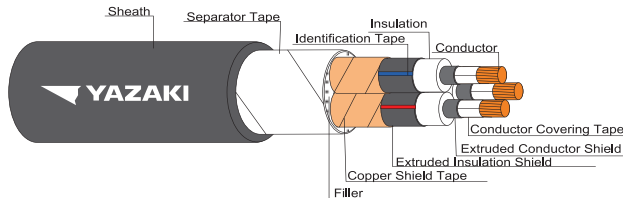
Number of core	Nominal cross sectional area (mm²)	Continuous current rating in free air at 40°C maximum (A)			Current rating Direct burial at 30°C (A)		Current rating Underground duct at 30°C (A)	
		Spaced	Touching	Trefoil	Spaced	Trefoil	Spaced	Trefoil
1	50	256	226	221	206	194	191	183
	70	319	281	275	252	237	237	228
	95	390	343	335	302	283	284	271
	120	450	395	385	343	322	322	308
	150	510	448	437	385	360	360	344
	185	586	514	501	390	364	364	347
	240	693	607	591	506	471	479	456
	300	796	696	678	572	530	541	513
	400	923	807	784	652	602	615	582
	500	1076	939	910	745	681	714	672
	630	1251	1088	1051	849	767	811	759
	800	1437	1243	1195	955	851	935	871
	1000	1640	1411	1348	1062	930	1036	956

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area (mm²)	A.C. Resistance R (Ω/km)			Inductance L (mH/km)			Reactance XL (Ω/km)			Impedance Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	50	0.4936	0.4937	0.4937	0.6525	0.5139	0.4676	0.2050	0.1614	0.1469	0.5345	0.5194	0.5151
	70	0.3420	0.3421	0.3420	0.6268	0.4882	0.4420	0.1969	0.1534	0.1389	0.3946	0.3749	0.3691
	95	0.2465	0.2466	0.2465	0.6048	0.4661	0.4199	0.1900	0.1464	0.1319	0.3112	0.2868	0.2796
	120	0.1956	0.1956	0.1957	0.5862	0.4475	0.4013	0.1842	0.1406	0.1261	0.2687	0.2409	0.2328
	150	0.1587	0.1588	0.1588	0.5743	0.4357	0.3895	0.1804	0.1369	0.1224	0.2403	0.2097	0.2005
	185	0.1271	0.1273	0.1273	0.5622	0.4236	0.3774	0.1766	0.1331	0.1186	0.2176	0.1842	0.1740
	240	0.0972	0.0974	0.0974	0.5466	0.4080	0.3618	0.1717	0.1282	0.1137	0.1973	0.1610	0.1497
	300	0.0779	0.0782	0.0783	0.5349	0.3963	0.3501	0.1680	0.1245	0.1100	0.1852	0.1470	0.1350
	400	0.0614	0.0618	0.0621	0.5231	0.3845	0.3383	0.1643	0.1208	0.1063	0.1754	0.1357	0.1231
	500	0.0487	0.0491	0.0491	0.5124	0.3738	0.3275	0.1610	0.1174	0.1029	0.1682	0.1273	0.1140
	630	0.0386	0.0392	0.0398	0.5009	0.3622	0.3160	0.1574	0.1138	0.0993	0.1620	0.1204	0.1070
	800	0.0313	0.0321	0.0329	0.4908	0.3522	0.3059	0.1542	0.1106	0.0961	0.1573	0.1152	0.1016
	1000	0.0262	0.0272	0.0282	0.4802	0.3415	0.2953	0.1509	0.1073	0.0928	0.1531	0.1107	0.0970

18/30KV-CV

18/30(36)kV 90°C CROSS-LINKED POLYETHYLENE INSULATED AND PVC SHEATHED POWER CABLE



IEC 60502-2

CABLE STRUCTURE

Conductor	: Compacted stranded annealed copper wire
Conductor shield	: Semi-conductive Cross-linked polyethylene compound
Insulation	: Cross-Linked polyethylene (XLPE)
Insulation shield	: Semi-conductive Cross-linked polyethylene compound
Core identification	: White, Red, Blue
Shield	: Copper tape
Filler	: Non-hygroscopic material
Separator tape	: Non-hygroscopic tape
sheath	: Black polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

Classification	: Maximum conductor temperature 90°C : Circuit voltage not exceeding 36,000 Volts
Rated voltage	: 18,000 Volts between Line to Earth : 30,000 Volts between Line to Line
AC Testing voltage	: 63,000 Volts
Reference standard	: IEC 60502-2, IEC 60228, IEC 60332-1

APPLICATION

For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area	Number of wires minimum	Insulation thickness nominal	Sheath thickness nominal	Overall diameter approx.	Conductor resistance at 20°C maximum	Insulation resistance at 20°C minimum	Maximum Current Rating			Cable weight approx.	Standard Length per drum
								In air at 40°C	Direct burial at 30°C	Under-ground duct at 30°C		
	(mm ²)	(No.)	(mm)	(mm)	(mm)	(Ω/km)	(MΩ·km)	(A)	(A)	(A)	(kg/km)	(m)
3	50	6	8.0	3.2	67.5	0.387	4,010	205	190	164	4418	500
	70	12	8.0	3.3	71.5	0.268	3,620	262	236	199	5270	300
	95	15	8.0	3.4	75.5	0.193	3,260	320	284	240	6308	300
	120	18	8.0	3.5	79.0	0.153	3,020	368	323	273	7313	300
	150	18	8.0	3.6	82.0	0.124	2,820	417	362	305	8338	300
	185	30	8.0	3.7	86.5	0.0991	2,620	477	409	347	9691	300
	240	34	8.0	3.9	92.5	0.0754	2,370	561	473	401	11798	300
	300	34	8.0	4.0	97.5	0.0601	2,190	640	533	455	13923	200

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W
Deep of laying (For cable laid direct in ground) 0.8 m
Shield bonded at single point

Number of core	Nominal cross sectional area	A.C. Resistance		Inductance	Reactance	Impedance
		R	L			
	(mm ²)	(Ω/km)	(mH/km)		(Ω/km)	(Ω/km)
3	50	0.4938	0.4336		0.1362	0.5122
	70	0.3421	0.4097		0.1287	0.3655
	95	0.2467	0.3883		0.1220	0.2752
	120	0.1958	0.3710		0.1166	0.2279
	150	0.1589	0.3593		0.1129	0.1949
	185	0.1274	0.3488		0.1096	0.1680
	240	0.0976	0.3340		0.1049	0.1433
	300	0.0785	0.3228		0.1014	0.1282
	400	0.0624	0.3117		0.0979	0.1161