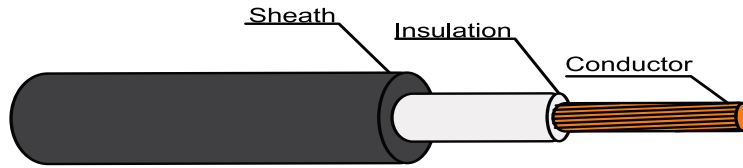


0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper  
Single-core : Sizes 1.5 mm<sup>2</sup> up to 1000 mm<sup>2</sup>
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** Single-core : Natural (Translucent)
- Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C  
: Circuit voltage not exceeding 1,200 Volts
- Rated voltage** : 600 Volts between Line to Earth  
: 1,000 Volts between Line to Line
- Testing voltag** : 3,500 Volts
- Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1  
IEC 60332-3-24 ( Cat.C )

APPLICATION

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

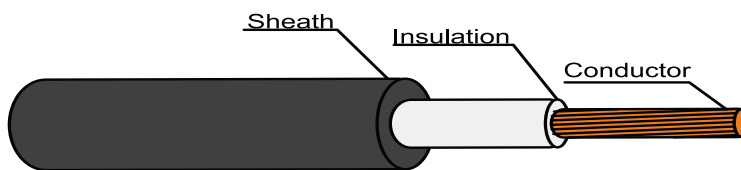
B

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	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)	Continuous current rating in free air at 40°C maximum			Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
								Space (A)	Touching (A)	Trefoil (A)			
1	1.5	Non-Compacted	0.7	1.4	6.3	12.1	2,500	31	24	23	33	50	500/D
	2.5	Non-Compacted	0.7	1.4	6.8	7.41	2,100	42	32	31	43	65	500/D
	4	Non-Compacted	0.7	1.4	7.9	4.61	1,700	54	42	41	55	80	500/D
	6	Non-Compacted	0.7	1.4	7.9	3.08	1,450	68	53	52	70	110	500/D
	10	Compacted	0.7	1.4	8.4	1.83	1,250	90	73	71	92	150	500/D
	16	Compacted	0.7	1.4	9.4	1.15	1,000	124	95	93	119	210	500/D
	25	Compacted	0.9	1.4	11.0	0.727	1,050	166	128	123	152	310	500/D
	35	Compacted	0.9	1.4	12.0	0.524	900	206	160	154	184	400	500/D
	50	Compacted	1.0	1.4	13.5	0.387	850	250	197	188	217	550	500/D
	70	Compacted	1.1	1.4	15.5	0.268	800	321	254	244	266	750	500/D
	95	Compacted	1.1	1.5	17.5	0.193	650	391	311	298	318	1000	500/D
	120	Compacted	1.2	1.5	19.0	0.153	650	455	364	349	362	1300	500/D
	150	Compacted	1.4	1.6	21	0.124	700	525	422	404	406	1500	500/D
	185	Compacted	1.6	1.6	23	0.0991	700	602	485	464	459	1900	500/D
	240	Compacted	1.7	1.7	26	0.0754	650	711	577	552	533	2500	500/D
	300	Compacted	1.8	1.8	29	0.0601	600	821	670	640	601	3100	500/D
	400	Compacted	2.0	1.9	32	0.0470	600	987	790	749	684	3900	500/D
	500	Compacted	2.2	2.0	36	0.0366	600	1140	908	861	777	5000	500/D
	630	Compacted	2.4	2.2	40	0.0283	550	1298	1064	1014	1229	6500	500/D
	800	Compacted	2.6	2.3	45	0.0221	550	1494	1220	1156	1380	8000	500/D
1000	Compacted	2.8	2.4	51	0.0176	500	1712	1391	1307	1532	10500	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in drum

Deep of laying (For cable laid direct in ground) 0.8 m



**CABLE STRUCTURE**

**Conductor** : Non-compacted and compacted round annealed copper  
 Single-core : Sizes 1.5 mm<sup>2</sup> up to 1000 mm<sup>2</sup>

**Insulation** : Cross-Linked polyethylene (XLPE)

**Core identification** Single-core : Natural (Translucent)

**Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

**TECHNICAL DATA**

**Classification** : Maximum conductor temperature 90°C  
 : Circuit voltage not exceeding 1,200 Volts

**Rated voltage** : 600 Volts between Line to Earth  
 : 1,000 Volts between Line to Line

**Testing volt** : 3,500 Volts

**Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1  
 IEC 60332-3-24 ( Cat.C )

**APPLICATION**

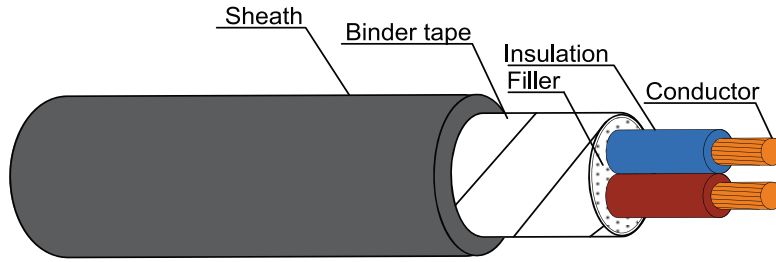
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	A.C.Resistance			Inductance			Reactance			Impedance		
		R (Ω/km)			L (mH/km)			XL (Ω/km)			Z (Ω/km)		
		Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil	Space	Touching	Trefoil
1	1.5	15.4287	15.4287	15.4287	0.6630	0.5244	0.4782	0.2083	0.1647	0.1502	15.4301	15.4296	15.4294
	2.5	9.4485	9.4485	9.4485	0.6314	0.4928	0.4466	0.1984	0.1548	0.1403	9.4506	9.4498	9.4495
	4	5.8782	5.8782	5.8782	0.5980	0.4594	0.4132	0.1879	0.1443	0.1298	5.8812	5.8800	5.8797
	6	3.9273	3.9273	3.9273	0.5735	0.4349	0.3886	0.1802	0.1366	0.1221	3.9315	3.9297	3.9292
	10	2.3335	2.3335	2.3335	0.5517	0.4130	0.3668	0.1733	0.1298	0.1152	2.3399	2.3371	2.3363
	16	1.4664	1.4664	1.4665	0.5263	0.3877	0.3415	0.1653	0.1218	0.1073	1.4757	1.4715	1.4704
	25	0.9271	0.9271	0.9272	0.5141	0.3755	0.3292	0.1615	0.1180	0.1034	0.9411	0.9346	0.9329
	35	0.6683	0.6683	0.6684	0.5002	0.3616	0.3154	0.1571	0.1136	0.0991	0.6865	0.6779	0.6757
	50	0.4937	0.4937	0.4938	0.4801	0.3414	0.2952	0.1508	0.1073	0.0927	0.5162	0.5053	0.5024
	70	0.3420	0.3421	0.3422	0.4693	0.3306	0.2844	0.1474	0.1039	0.0894	0.3724	0.3576	0.3537
	95	0.2465	0.2467	0.2468	0.4623	0.3236	0.2774	0.1452	0.1017	0.0872	0.2861	0.2668	0.2618
	120	0.1956	0.1959	0.1961	0.4564	0.3178	0.2715	0.1434	0.0998	0.0853	0.2425	0.2198	0.2138
	150	0.1587	0.1591	0.1593	0.4532	0.3146	0.2683	0.1424	0.0988	0.0843	0.2132	0.1873	0.1803
	185	0.1271	0.1275	0.1279	0.4531	0.3144	0.2682	0.1423	0.0988	0.0843	0.1909	0.1613	0.1531
	240	0.0972	0.0977	0.0982	0.4463	0.3077	0.2615	0.1402	0.0967	0.0821	0.1706	0.1375	0.1280
	300	0.0779	0.0787	0.0792	0.4413	0.3027	0.2565	0.1387	0.0951	0.0806	0.1591	0.1234	0.1130
	400	0.0616	0.0625	0.0632	0.4393	0.3007	0.2545	0.1380	0.0945	0.0800	0.1511	0.1133	0.1019
500	0.0488	0.0499	0.0509	0.4365	0.2979	0.2517	0.1371	0.0936	0.0791	0.1455	0.1061	0.0940	
630	0.0387	0.0402	0.0414	0.4341	0.2954	0.2492	0.1364	0.0928	0.0783	0.1418	0.1011	0.0886	
800	0.0314	0.0332	0.0346	0.4309	0.2923	0.2461	0.1354	0.0918	0.0773	0.1390	0.0977	0.0847	
1000	0.0263	0.0284	0.0301	0.4265	0.2879	0.2416	0.1340	0.0904	0.0759	0.1366	0.0948	0.0817	



0.6/1 kV 90°C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper  
Multi-core : Sizes 1.5 mm<sup>2</sup> up to 400 mm<sup>2</sup>
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification**  
2 cores: Blue, Brown
- Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

- Classification** : Maximum conductor temperature 90°C  
: Circuit voltage not exceeding 1,200 Volts
- Rated voltage** : 600 Volts between Line to Earth  
: 1,000 Volts between Line to Line
- Testing voltage** : 3,500 Volts
- Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1  
IEC 60332-3-24 ( Cat.C )

APPLICATION

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

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	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)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C maximum (A)	Cable weight approx. (kg/km)	Standard Length (m)
2	1.5	Non-Compacted	0.7	1.8	11.0	12.1	2,500	26	33	130	500/D
	2.5	Non-Compacted	0.7	1.8	12.0	7.41	2,100	35	44	160	500/D
	4	Non-Compacted	0.7	1.8	13.0	4.61	1,700	46	57	200	500/D
	6	Non-Compacted	0.7	1.8	14.0	3.08	1,450	59	71	260	500/D
	10	Compacted	0.7	1.8	15.0	1.83	1,250	79	93	340	500/D
	16	Compacted	0.7	1.8	17	1.15	1,000	105	121	480	500/D
	25	Compacted	0.9	1.8	21	0.727	1,050	116	152	700	500/D
	35	Compacted	0.9	1.8	23	0.524	900	144	184	900	500/D
	50	Compacted	1.0	1.8	26	0.387	850	175	217	1200	500/D
	70	Compacted	1.1	1.8	29	0.268	800	224	266	1600	500/D
	95	Compacted	1.1	2.0	33	0.193	650	271	318	2200	500/D
	120	Compacted	1.2	2.1	37	0.153	650	315	362	2800	500/D
	150	Compacted	1.4	2.2	41	0.124	700	363	406	3400	500/D
	185	Compacted	1.6	2.3	45	0.0991	700	415	459	4200	500/D
	240	Compacted	1.7	2.5	51	0.0754	650	490	533	5500	500/D
	300	Compacted	1.8	2.7	56	0.0601	600	565	601	7000	500/D
400	Compacted	2.0	2.9	63	0.0470	600	791	683	8500	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

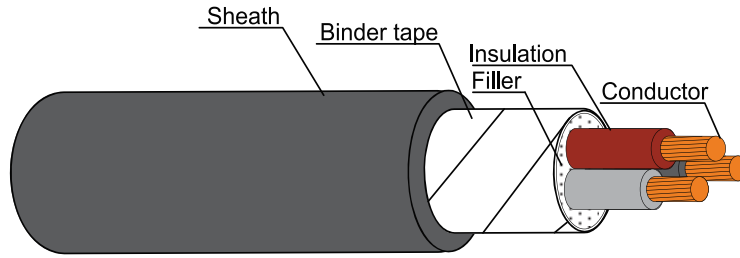
D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	A.C.Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
2	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9273	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6684	0.2567	0.0807	0.6733
	50	0.4938	0.2435	0.0765	0.4997
	70	0.3423	0.2395	0.0752	0.3504
	95	0.2468	0.2331	0.0732	0.2575
	120	0.1960	0.2315	0.0727	0.2091
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2338	0.0734	0.1474
	240	0.0981	0.2295	0.0721	0.1217
	300	0.0791	0.2260	0.0710	0.1063
400	0.0630	0.2259	0.0710	0.0949	

0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

**Conductor** : Non-compacted and compacted round annealed copper  
Multi-core : Sizes 1.5 mm<sup>2</sup> up to 400 mm<sup>2</sup>

**Insulation** : Cross-Linked polyethylene (XLPE)

**Core identification**  
3 cores: Brown, Black, Grey

**Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

**Classification** : Maximum conductor temperature 90°C  
: Circuit voltage not exceeding 1,200 Volts

**Rated voltage** : 600 Volts between Line to Earth  
: 1,000 Volts between Line to Line

**Testing voltage** : 3,500 Volts

**Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1  
IEC 60332-3-24 ( Cat.C )

APPLICATION

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

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Conductor type	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)	Continuous current rating in free air at 40°C maximum (A)	Continuous current rating in ground at 30°C (A)	Cable weight approx. (kg/km)	Standard Length (m)
3	1.5	Non-Compacted	0.7	1.8	11.5	12.1	2,500	26	33	150	500/D
	2.5	Non-Compacted	0.7	1.8	12.5	7.41	2,100	35	44	190	500/D
	4	Non-Compacted	0.7	1.8	13.5	4.61	1,700	46	57	250	500/D
	6	Non-Compacted	0.7	1.8	15.0	3.08	1,450	59	71	320	500/D
	10	Compacted	0.7	1.8	16.0	1.83	1,250	79	93	450	500/D
	16	Compacted	0.7	1.8	18	1.15	1,000	105	121	650	500/D
	25	Compacted	0.9	1.8	22	0.727	1,050	116	152	950	500/D
	35	Compacted	0.9	1.8	24	0.524	900	144	184	1300	500/D
	50	Compacted	1.0	1.8	27	0.387	850	175	217	1600	500/D
	70	Compacted	1.1	1.9	31	0.268	800	224	266	2300	500/D
	95	Compacted	1.1	2.0	36	0.193	650	271	318	3100	500/D
	120	Compacted	1.2	2.1	39	0.153	650	315	362	3900	500/D
	150	Compacted	1.4	2.3	44	0.124	700	363	406	4800	500/D
	185	Compacted	1.6	2.4	49	0.0991	700	415	459	6000	500/D
	240	Compacted	1.7	2.6	55	0.0754	650	490	533	8000	500/D
	300	Compacted	1.8	2.8	61	0.0601	600	565	601	9500	500/D
400	Compacted	2.0	3.1	68	0.0470	600	791	683	12500	500/D	

Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

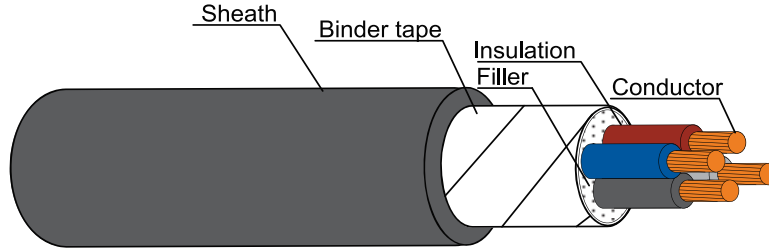
D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	

0.6/1 kV 90 °C CROSS-LINKED POLYETHYLENE INSULATED PVC SHEATHED FLAME RETARDANT POWER CABLE

IEC 60502-1



CABLE STRUCTURE

TECHNICAL DATA

**Conductor** : Non-compacted and compacted round annealed copper  
Multi-core : Sizes 1.5 mm<sup>2</sup> up to 400 mm<sup>2</sup>

**Classification** : Maximum conductor temperature 90°C  
: Circuit voltage not exceeding 1,200 Volts

**Insulation** : Cross-Linked polyethylene (XLPE)

**Rated voltage** : 600 Volts between Line to Earth  
: 1,000 Volts between Line to Line

**Core identification**

4 cores: Blue, Brown, Black, Grey

**Testing voltag** : 3,500 Volts

**Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

**Reference standard** : IEC 60502-1, IEC 60228, IEC 60332-1  
IEC 60332-3-24 ( Cat.C )

APPLICATION

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

B

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	Number of wires	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)	Continuous current rating in free air at 40°C (A)	Continuous current rating in ground at (A)	Cable weight approx. (kg/km)	Standard Length (m)
4	1.5	Non-Compacted	0.7	1.8	12.0	12.1	2,500	26	33	180	500/D
	2.5	Non-Compacted	0.7	1.8	13.5	7.41	2,100	35	44	230	500/D
	4	Non-Compacted	0.7	1.8	14.5	4.61	1,700	46	57	300	500/D
	6	Non-Compacted	0.7	1.8	16.0	3.08	1,450	59	71	400	500/D
	10	Compacted	0.7	1.8	17.5	1.83	1,250	79	93	550	500/D
	16	Compacted	0.7	1.8	20	1.15	1,000	105	121	800	500/D
	25	Compacted	0.9	1.8	24	0.727	1,050	116	152	1200	500/D
	35	Compacted	0.9	1.8	27	0.524	900	144	184	1600	500/D
	50	Compacted	1.0	1.8	30	0.387	850	175	217	2100	500/D
	70	Compacted	1.1	1.9	35	0.268	800	224	266	3000	500/D
	95	Compacted	1.1	2.0	39	0.193	650	271	318	4000	500/D
	120	Compacted	1.2	2.1	44	0.153	650	315	362	5000	500/D
	150	Compacted	1.4	2.3	49	0.124	700	363	406	6500	500/D
	185	Compacted	1.6	2.4	54	0.0991	700	415	459	8000	500/D
	240	Compacted	1.7	2.6	61	0.0754	650	490	533	10000	500/D
	300	Compacted	1.8	2.8	68	0.0601	600	565	601	12500	500/D
400	Compacted	2.0	3.1	76	0.0470	600	791	683	16000	500/D	

**Remark** : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in Drum

Deep of laying (For cable laid direct in ground) 0.8 m

Number of core	Nominal cross sectional area (mm <sup>2</sup> )	A.C.Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
4	1.5	15.4287	0.3427	0.1077	15.4291
	2.5	9.4485	0.3249	0.1021	9.4491
	4	5.8782	0.3026	0.0951	5.8790
	6	3.9274	0.2890	0.0908	3.9284
	10	2.3335	0.2747	0.0863	2.3351
	16	1.4665	0.2614	0.0821	1.4688
	25	0.9272	0.2637	0.0829	0.9309
	35	0.6685	0.2567	0.0807	0.6733
	50	0.4939	0.2435	0.0765	0.4998
	70	0.3424	0.2395	0.0752	0.3506
	95	0.2471	0.2331	0.0732	0.2577
	120	0.1964	0.2315	0.0727	0.2094
	150	0.1597	0.2302	0.0723	0.1753
	185	0.1282	0.2338	0.0734	0.1478
	240	0.0987	0.2295	0.0721	0.1222
	300	0.0798	0.2260	0.0710	0.1068
400	0.0639	0.2259	0.0710	0.0955	