

CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
: Multi-core : Sizes 1.5 mm² up to 400 mm²
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 2 Cores: Blue, Brown
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : Galvanized Steel Wires
- 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 cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armour 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	1.2	9.7	0.8	1.8	15.0	12.1	2,500	28	33	380	500/D
	2.5	Non-Compacted	0.7	1.2	10.5	0.8	1.8	16.5	7.41	2,100	37	43	420	500/D
	4	Non-Compacted	0.7	1.2	11.5	1.25	1.8	18.0	4.61	1,700	50	57	600	500/D
	8	Non-Compacted	0.7	1.2	12.5	1.25	1.8	19.5	3.08	1,450	83	71	700	500/D
	10	Compacted	0.7	1.2	14.0	1.25	1.8	20	1.83	1,250	83	93	800	500/D
	16	Compacted	0.7	1.2	16.0	1.25	1.8	23	1.150	1,000	111	121	1,200	500/D
	25	Compacted	0.9	1.2	19.0	1.6	1.8	26	0.727	1,050	147	156	1,500	500/D
	35	Compacted	0.9	1.2	22	2.0	1.8	30	0.524	900	182	188	2,000	500/D
	50	Compacted	1.0	1.2	24	2.0	1.9	33	0.387	850	219	222	2,400	500/D
	70	Compacted	1.1	1.2	28	2.0	2.0	36	0.288	800	275	271	3,100	500/D
	95	Compacted	1.1	1.2	32	2.0	2.1	40	0.193	650	337	325	3,800	500/D
	120	Compacted	1.2	1.2	35	2.0	2.3	44	0.153	650	389	368	4,600	500/D
	150	Compacted	1.4	1.3	39	2.0	2.4	48	0.124	700	444	412	6,000	500/D
	185	Compacted	1.6	1.3	43	2.5	2.6	54	0.0991	700	509	463	7,000	500/D
	240	Compacted	1.7	1.4	49	2.5	2.7	60	0.0754	650	600	534	8,500	500/D
	300	Compacted	1.8	1.5	54	2.5	2.9	66	0.0601	600	684	597	10,000	300/D
400	Compacted	2.0	1.7	61	2.5	3.2	73	0.0470	600	783	670	12,500	300/D	

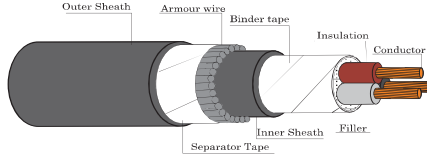
Remark : Thermal resistivity of soil 1.2 K.m/W or °C.m/W

D : Packing in drum

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

Number of cores	Nominal cross sectional area (mm ²)	A.C. Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance 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	0.2289	0.0719	0.2088
	150	0.1593	0.2302	0.0723	0.1749
	185	0.1278	0.2326	0.0731	0.1472
	240	0.0981	0.2281	0.0717	0.1215
	300	0.0791	0.2260	0.0710	0.1063
400	0.0630	0.2259	0.0710	0.0949	





CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Non-compacted and compacted round annealed copper : Multi-core : Sizes 1.5 mm ² up to 400 mm ²	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	: 3 Cores: Brown, Black, Grey	Testing volt	: 3,500 Volts
Inner Sheath	: Black polyvinyl chloride (PVC)	Reference standard	: IEC 60502-1, IEC 60228, IEC 60332-1 : IEC 60332-3-24 (Cat.C)
Armour	: Galvanized Steel Wires		
Sheath	: Black flame retardant polyvinyl chloride (PVC/ST2)		

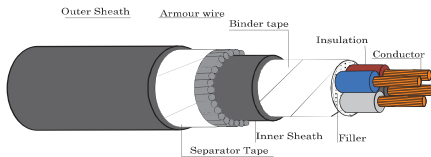
APPLICATION
For installation exposed, or in raceway, wet or dry location, or direct burial in ground

B

Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath approx. (mm)	Diameter of steel wire armor 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)
3	1.5	Non-Compacted	0.7	1.2	10.0	0.8	1.8	16.0	12.1	2,500	24	26	400	500D
	2.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	18.0	7.41	2,100	32	34	550	500D
	4	Non-Compacted	0.7	1.2	12.0	1.25	1.8	19.0	4.61	1,700	42	44	650	500D
	6	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20	3.08	1,450	53	55	800	500D
	10	Compacted	0.7	1.2	14.5	1.6	1.8	21	1.83	1,250	71	72	950	500D
	16	Compacted	0.7	1.2	17.0	1.6	1.8	24	1,150	1,000	94	93	1,300	500D
	25	Compacted	0.9	1.2	21	2.0	1.8	28	0.727	1,050	125	120	1,800	500D
	35	Compacted	0.9	1.2	23	2.0	1.8	31	0.524	900	154	145	2,400	500D
	50	Compacted	1.0	1.2	26	2.0	2.0	34	0.387	850	186	171	3,000	500D
	70	Compacted	1.1	1.2	30	2.0	2.1	39	0.268	800	233	208	3,800	500D
	95	Compacted	1.1	1.2	34	2.0	2.2	43	0.193	650	286	249	4,800	500D
	120	Compacted	1.2	1.2	38	2.0	2.3	47	0.153	650	332	283	6,000	500D
	150	Compacted	1.4	1.3	42	2.5	2.5	52	0.124	700	376	315	7,500	500D
	185	Compacted	1.6	1.4	47	2.5	2.7	58	0.0991	700	430	354	9,000	500D
	240	Compacted	1.7	1.5	53	2.5	2.9	64	0.0754	650	505	406	11,000	300D
	300	Compacted	1.8	1.6	58	2.5	3.0	70	0.0601	600	574	453	13,500	300D
400	Compacted	2.0	1.8	65	3.15	3.4	80	0.0470	600	652	501	17,500	300D	

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
 D : Packing in drum

Number of cores	Nominal cross sectional area (mm ²)	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	0.2289	0.0719	0.2091				
	150	0.1597	0.2302	0.0723	0.1753				
	185	0.1283	0.2326	0.0731	0.1476				
	240	0.0987	0.2281	0.0717	0.1219				
	300	0.0798	0.2260	0.0710	0.1068				
400	0.0639	0.2259	0.0710	0.0955					



CABLE STRUCTURE

- Conductor** : Non-compacted and compacted round annealed copper
: Multi-core : Sizes 1.5 mm² up to 400 mm²
- Insulation** : Cross-Linked polyethylene (XLPE)
- Core identification** : 4 Cores: Blue, Brown, Black, Grey
- Inner Sheath**: Black polyvinyl chloride (PVC)
- Armour** : Galvanized Steel Wires
- Sheath** : Black flame retardant polyvinyl chloride (PVC/ST2)

TECHNICAL DATA

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: Circuit voltage not exceeding 1,200 Volts
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APPLICATION

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Number of cores	Nominal cross sectional area (mm ²)	Conductor type	Insulation thickness nominal (mm)	Inner Sheath thickness approx. (mm)	Dia. Of inner sheath (mm)	Diameter of steel wire armor 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)
4	1.5	Non-Compacted	0.7	1.2	11.0	1.25	1.8	17.5	12.1	2,500	24	26	550	500/D
	2.5	Non-Compacted	0.7	1.2	12.0	1.25	1.8	19.0	7.41	2,100	32	34	650	500/D
	4	Non-Compacted	0.7	1.2	13.5	1.25	1.8	20.0	4.61	1,700	42	44	750	500/D
	6	Non-Compacted	0.7	1.2	15.0	1.25	1.8	21	3.08	1,450	53	55	900	500/D
	10	Compacted	0.7	1.2	16.0	1.25	1.8	23	1.831	1,250	71	72	1100	500/D
	16	Compacted	0.7	1.2	18.5	1.6	1.8	26	1.150	1,000	94	93	1,600	500/D
	25	Compacted	0.9	1.2	23	2.0	1.8	31	0.727	1,050	125	120	2,300	500/D
	35	Compacted	0.9	1.2	25	2.0	1.9	34	0.524	900	154	145	2,900	500/D
	50	Compacted	1.0	1.2	29	2.0	2.1	38	0.387	850	186	171	3,600	500/D
	70	Compacted	1.1	1.2	33	2.0	2.2	42	0.288	800	233	208	4,700	500/D
	95	Compacted	1.1	1.2	38	2.0	2.3	48	0.193	650	286	249	6,000	500/D
	120	Compacted	1.2	1.3	42	2.5	2.5	53	0.153	650	332	283	7,500	500/D
	150	Compacted	1.4	1.4	46	2.5	2.7	58	0.124	700	376	315	9,000	500/D
	185	Compacted	1.6	1.5	52	2.5	2.8	64	0.0991	700	430	354	11,000	500/D
	240	Compacted	1.7	1.6	59	2.5	3.1	71	0.0754	650	505	406	14,000	300/D
	300	Compacted	1.8	1.7	65	3.15	3.3	79	0.0601	600	574	453	17,000	300/D
	400	Compacted	2.0	1.9	73	3.15	3.6	87	0.0470	600	652	501	22,000	300/D

B

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 cores	Nominal cross sectional area (mm ²)	A.C. Resistance		Inductance		Reactance		Impedance	
		R (Ω/km)	X _L (Ω/km)	L (mH/km)	X _L (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	0.0906	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	0.6688	0.2667	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	0.2289	0.0719	0.2091				
150	0.1597	0.2302	0.0723	0.1753					
185	0.1283	0.2326	0.0731	0.1476					
240	0.0987	0.2281	0.0717	0.1219					
300	0.0798	0.2260	0.0710	0.1068					
400	0.0639	0.2259	0.0710	0.0955					