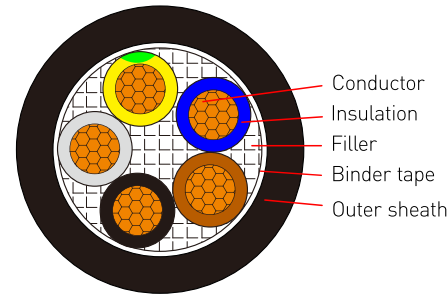


CU/PVC/PVC

PVC insulated and sheathed 0.6/1kV power cable

Standards: IEC 60502-1, AS/NZS 5000.1



Conductor
Insulation
Filler
Binder tape
Outer sheath

Technical data

Temperature range:

During installation(ambient): 0°C~+50°C

During operation(ambient): -15°C~+50°C

Maximum conductor temperature in normal use: 70°C

Maximum conductor temperature at short circuit of 5s:

160°C(≤300mm²), 140°C(>300mm²)

Test voltage and duration: 3.5kV, 5min

Minimum bending radius:

During installation: 6D (D<25mm), 9D (D≥25mm)

D – Maximum outer diameter of cable.

Construction

1. Conductor: Class 1 or Class 2 copper conductor according to IEC 60228/AS/NZS 1125.

2. Insulation: PVC compound PVC/A according to IEC 60502-1/V-90 according to AS/NZS 3808.

3. Filler: Non-hygroscopic PP rope.

4. Binder tape: Non-hygroscopic material binder tape.

5. Outer sheath: PVC compound PVC/ST1 according to IEC 60502-1/5V-90 according to AS/NZS 3808.

Sheath colour: Black, Orange.

Identification: according to HD 308 S2.

No. of cores	Without protective conductor	With protective conductor
1	Wh	Ye/Gn
2	Bu, Bn	---
3	Bn, Bk, Gy	Bu, Bn, Ye/Gn
4	Bu, Bn, Bk, Gy	Bn, Bk, Gy, Ye/Gn
5	Bu, Bn, Bk, Gy, Ye/Gn	Bu, Bn, Bk, Gy, Ye/Gn

Application

This product is used for power transmission and distribution rated voltage up to and including 0.6/1kV.

Secondary transmission parameter

No. of cores & Cross-section area	Nominal thickness of insulation	Nominal thickness of outer sheath	Max. diameter of cable	Approx. mass of cable	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	kA	kN
2x1.5	0.8	1.8	12.7	134	0.2	0.20
2x2.5	0.8	1.8	13.6	166	0.3	0.34
2x4	1.0	1.8	15.4	228	0.5	0.54
2x6	1.0	1.8	16.5	283	0.7	0.82
2x10	1.0	1.8	18.1	385	1.2	1.36
2x16	1.0	1.8	20.0	525	1.8	2.18
2x25	1.2	1.8	23.2	761	2.9	3.40
2x35	1.2	1.8	25.2	977	4.0	4.76
2x50	1.4	1.8	28.2	1280	5.8	6.80
2x70	1.4	1.9	32.0	1754	8.1	9.52
2x95	1.6	2.0	36.2	2359	10.9	12.92
2x120	1.6	2.1	39.6	2925	13.8	16.32
2x150	1.8	2.2	43.7	3584	17.3	20.40
2x185	2.0	2.4	48.6	4455	21.3	25.16
2x240	2.2	2.6	54.6	5766	27.6	32.64
2x300	2.4	2.7	60.3	7137	34.5	40.80
2x400	2.6	3.0	67.7	9055	41.1	54.40
3x1.5	0.8	1.8	13.2	161	0.2	0.31
3x2.5	0.8	1.8	14.2	203	0.3	0.51
3x4	1.0	1.8	16.2	285	0.5	0.82
3x6	1.0	1.8	17.4	360	0.7	1.22
3x10	1.0	1.8	19.0	503	1.2	2.04
3x16	1.0	1.8	21.1	699	1.8	3.26
3x25	1.2	1.8	24.6	1029	2.9	5.10
3x35	1.2	1.8	26.8	1335	4.0	7.14
3x50	1.4	1.8	30.0	1761	5.8	10.20
3x70	1.4	2.0	34.3	2445	8.1	14.28
3x95	1.6	2.1	39.2	3332	10.9	19.38
3x120	1.6	2.2	42.5	4097	13.8	24.48
3x150	1.8	2.3	47.0	5027	17.3	30.60
3x185	2.0	2.5	52.2	6254	21.3	37.74
3x240	2.2	2.7	58.7	8111	27.6	48.96
3x300	2.4	2.9	65.0	10091	34.5	61.20
3x400	2.6	3.1	72.7	12776	41.1	81.60
4x1.5	0.8	1.8	14.1	193	0.2	0.41
4x2.5	0.8	1.8	15.2	248	0.3	0.68
4x4	1.0	1.8	17.4	352	0.5	1.09
4x6	1.0	1.8	18.7	449	0.7	1.63
4x10	1.0	1.8	20.6	634	1.2	2.72
4x16	1.0	1.8	23.0	890	1.8	4.35
4x25	1.2	1.8	26.8	1319	2.9	6.80
4x35	1.2	1.8	29.3	1722	4.0	9.52
4x50	1.4	1.9	33.1	2293	5.8	13.60
4x70	1.4	2.1	38.3	3216	8.1	19.04
4x95	1.6	2.2	43.4	4344	10.9	25.84
4x120	1.6	2.4	47.3	5369	13.8	32.64
4x150	1.8	2.5	52.4	6590	17.3	40.80
4x185	2.0	2.7	58.1	8197	21.3	50.32
4x240	2.2	2.9	65.4	10636	27.6	65.28
4x300	2.4	3.1	72.4	13235	34.5	81.60
4x400	2.6	3.4	81.2	16796	41.1	108.80