



VSD/EMC Cables (Copper Tape Screened), 0.6/1kV

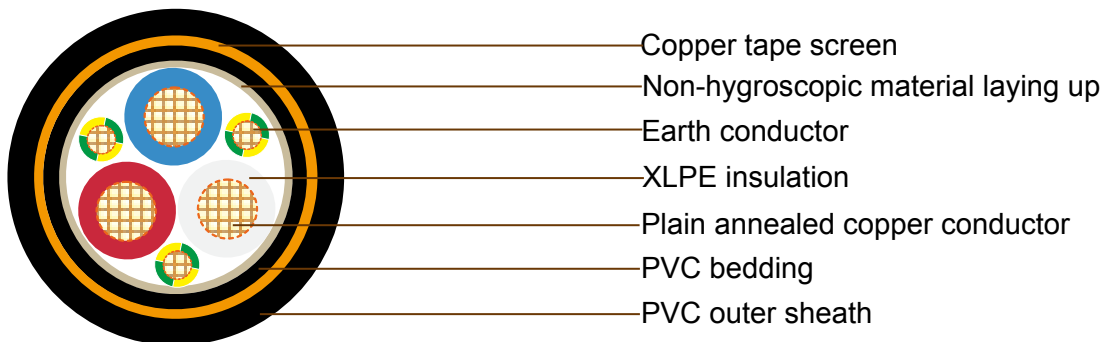
Application

These cables are used to supply motors from variable speed controls unenclosed, enclosed in conduit, mounted on tray, or in underground ducts for industrial plants, where not subject to mechanical damage. They are designed to significantly reduce radiated interference from electrical noise by using symmetrical, balanced and screened construction.

Standard

AS/NZS 5000.1, AS 1125, AS 3808

Cable Construction



Conductor: Plain annealed copper, class 2 strands

Insulation: XLPE, X-90

Insulation colour: Red, White, Blue & Green/Yellow

Laying up: Non-hygroscopic material(optional)

Bedding: Flame retardant polyvinyl chloride PVC V90

Screen: Plain annealed copper tape with 100% coverage

Sheath: Flame retardant polyvinyl chloride PVC V90

Sheath colour: Black



Technical Characteristics

Conductor	Current Ratings			Electrical Characteristics			
	Nominal Area mm ²	Unenclosed Touching A	Unenclosed In Air A	Buried In Ducts A	Maximum DC Resistance @20°C Ohm/km	Maximum AC Resistance @90°C Ohm/km	Reactance Ohm/km
2.5	29	24	32	7.41	9.45	0.0988	16.4
4	39	32	41	4.61	5.88	0.0930	10.2
6	50	42	51	3.08	3.93	0.0887	6.80
10	68	58	68	1.83	2.33	0.0840	4.05
16	91	77	89	1.21	1.54	0.0805	2.68
25	121	108	118	0.780	0.932	0.0808	1.62
35	149	127	144	0.554	0.684	0.0786	1.19
50	187	154	171	0.386	0.513	0.0751	0.902
70	237	193	214	0.272	0.340	0.0741	0.608
95	292	231	257	0.206	0.266	0.0725	0.485
120	336	275	294	0.161	0.206	0.0713	0.387
150	385	308	332	0.129	0.162	0.0718	0.317
185	446	358	380	0.106	0.134	0.0720	0.275
240	528	424	449	0.0801	0.105	0.0709	0.233
300	605	-	508	0.0641	0.0836	0.0704	0.205

Cable Parameter

No. of Core	Nom. conductor area mm ²	Core diameter mm	Earth conductor area mm ²	Earth core diameter mm	Over bedding diameter mm	Cable diameter mm	Approx. mass kg/km
3C+E	2.5	3.7	2.5	3.5	10.9	15.0	330
3C+E	4	4.7	4	4.7	13	15.3	375
3C+3E	6	5.3	1.5	3.0	13.8	16.9	415
3C+3E	10	6.2	1.5	3.0	14.8	17.8	550
3C+3E	16	7.4	2.5	3.5	17	21.0	760
3C+3E	25	9.1	4	4.7	19.2	24.4	1130
3C+3E	35	10.3	6	5.3	21.9	27.2	1480
3C+3E	50	12.3	10	6.2	25.1	30.8	2110
3C+3E	70	14.0	10	6.2	28.1	35.7	2740
3C+3E	95	15.3	16	7.4	33.9	39.9	3590
3C+3E	120	17.1	16	7.4	38.9	43.8	4400
3C+3E	150	19.2	25	9.1	42.6	48.4	5450
3C+3E	185	21.5	25	9.1	47.5	54.1	6760
3C+3E	240	24.2	35	10.3	53.6	60.2	8600
3C+3E	300	26.8	50	12.3	59.6	66.3	10640