

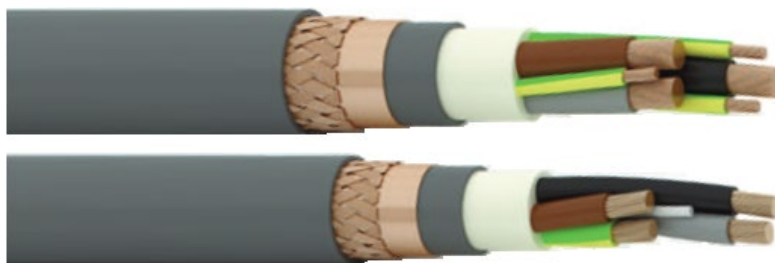
FRECO-EMC Li2XY(CuB)CY C_{ca} - s3, d2, a3

Motor control and power supply cable, 0,6/1 kV
+90 °C service temperature, optimised screen, fire retardant
EN 50575

Application

Flexible motor power supply cable with improved fire characteristics for frequency converter controlled AC drives in industries or wind turbines. This cable type, that incorporate a special screen and have a symmetrical distribution of the protective conductor (3x... + 3G...), are adequate for facilities where is necessary avoid the interferences of electromagnetic waves of high frequency of nearby circuits, as variation engines of speed. For fixed installation and occasional free flexing indoors in dry, damp and wet conditions for low mechanical stress. Outdoor laying only permitted when protected from direct sunlight and other external impacts. Underground installation is allowed provided that the cable is installed in a sufficiently drained tube (no water accumulation).

Construction



1. Conductor: Copper conductor, bare, flexible (class 5)
2. Insulation: XLPE
Core identification: according to HD 308 S2
3. Core covering: Tape or filler
4. Inner sheath: PVC
Multilayer screen, EMC optimised regarding to radio frequency interference field
5. Screen 1st layer: Copper tape, bare
6. Screen 2nd layer: Copper wire braid, bare
7. Outer sheath: PVC, grey

Technical information

Rated voltage	U ₀ /U	0,6/1 kV
Max. permissible temperature at conductor		90 °C
Max. short circuit temperature of the conductor		250 °C (max, 5 sec)
Min. operating temperature	fixed installation	-45 °C
Min. temperature during installation		-5 °C
Min. bending radius mm	fixed installation	10 x outer diameter in mm
Safety parameters		
Reaction to fire		EN 50399 C _{ca} - s3,d2,a3
Flame spread	single cable	IEC 60332-1-2
	bunched cables	IEC 60332-3

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N° of cores and size mm ²	Diameter over insulation approx. mm	Diameter over inner sheath approx. mm	Diameter over screen approx. mm	Outer diameter approx. mm	Cable weight approx. kg/km
4 G 2,5 /2,5	3,4	9,8	10,9	14,5	343
4 G 4 /4	4,0	11,0	12,1	15,7	439
4 G 6 /6	4,5	12,4	13,7	17,3	566
4 G 10 /10	5,5	15,6	16,8	20,4	843
4 G 16 /16	6,8	18,4	20,3	23,9	1236
4 G 25 /16	8,3	22,0	23,5	27,1	1655
4 G 35 /16	9,6	26,7	28,2	31,8	2261
4 G 50 /25	11,2	31,0	33,0	36,8	3081
4 G 70 /35	13,0	35,3	37,3	41,5	4201
4 G 95 /50	14,6	39,2	41,2	45,6	5394
4 G 120 /60	16,5	44,2	46,6	51,4	6781
4 G 150 /75	18,5	49,0	51,4	56,4	8405
4 G 185/75	20,7	54,3	56,7	62,1	10167
4 G 240/75	23,6	61,3	63,7	69,5	12936
3 x 16 + 3 G 2,5/16	6,8	17,3	19,2	22,8	1078
3 x 25 + 3 G 4/16	8,3	20,5	22,0	25,6	1410
3 x 35 + 3 G 6/16	9,6	23,7	25,2	28,8	1840
3 x 50 + 3 G 10/25	11,2	27,4	29,4	33,2	2427
3 x 70 + 3 G 10/35	13,0	31,3	33,3	37,3	3194
3 x 95 + 3 G 16/50	14,6	34,7	36,7	40,9	4211
3 x 120+3 G 25/60	16,5	39,0	41,4	45,8	5379
3 x 150+3 G 25/75	18,5	43,4	45,8	50,6	6535
3 x 185+3 G 35/75	20,7	48,3	50,7	55,7	7991
3 x 240+3 G 50/75	23,6	54,8	57,2	62,6	10198

La version française de cette fiche technique est disponible sur demande.
De technische gegevens zijn op aanvraag in het Nederlands beschikbaar.