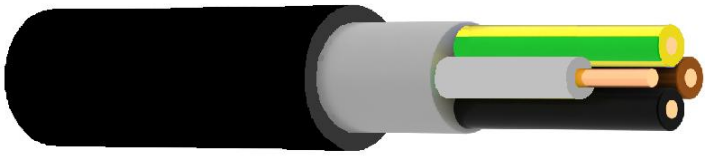
CYKY-J, O 450/750V

CSN 34 7411

PVC insulated and PVC sheathed power and control cable



CONSTRUCTION

Conductors:	annealed copper solid class 1(RE) acc. to EN 60228
Insulation:	special PVC compound type TI1 acc to EN 50363-3
Inner covering:	non-vulcanized rubber
Sheath:	special PVC compound type TM1 acc to EN 50363-4-1

CHARACTERISTIC

Colour of sheath: black, UV resistant

Core identification:

	CYKY-J	CYKY-O
2-core:		blue, brown
3-core:	green-yellow, blue, brown	brown, black, grey
4-core:	green-yellow, brown, black, grey	blue, brown, black, grey
5-core:	green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
7 and more:	green-yellow, other cores black with white numbering	black with white numbering

Maximum conductor operating temperature:	+70°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-5°C
Maximum short-circuit conductor temperature:	+160°C
Minimum bending radius:	6d for cables with diameter ≤20d, 12d for cables with diameter >20mm, d – overall diameter
Dielectric test voltage 50Hz:	2,5kV

FIRE PERFORMANCE

- **Flame retardant:** EN 60332-1-2

Fire classification products and building elements related with Construction Products Regulation CPR): $\mathbf{E_{ca}}$ acc. to EN 13501-6

APPLICATIONS

For fixed installation in interior premises, cable ducts, in the open air, in water – as permitted by the local building regulations – if no risk of any mechanical damage is to be expected

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request

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Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C
n x mm²	**mm**	**kg/km**	Ω/km
2x1,5	7,0	85	12,1
2x2,5	8,2	122	7,41
2x4	9,1	164	4,61
2x6	10,4	225	3,08
2x10	12,8	356	1,83
2x16	14,6	504	1,15
3x1,5	7,4	101	12,1
3x2,5	8,7	148	7,41
3x4	9,6	202	4,61
3x6	11,0	281	3,08
3x10	13,6	447	1,83
3x16	15,5	644	1,15
4x1,5	8,0	124	12,1
4x2,5	9,4	180	7,41
4x4	10,6	249	4,61
4x6	12,0	347	3,08
4x10	14,9	557	1,83
4x16	17,5	824	1,15
5x1,5	8,7	150	12,1
5x2,5	10,3	221	7,41
5x4	11,6	308	4,61
5x6	13,2	429	3,08
5x10	16,8	707	1,83
5x16	19,2	1023	1,15
7x1,5	9,8	194	12,1
7x2,5	11,5	288	7,41
7x4	12,9	239	4,61
12x1,5	12,6	310	12,1
12x2,5	15,0	466	7,41
12x4	17,3	676	4,61
19x1,5	14,7	452	12,1
19x2,5	18,0	703	7,41
24x1,5	17,6	584	12,1
24x2,5	21,0	885	7,41
37x1,5	20,0	837	12,1

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Current ratings

Operating temperature at conductor 70°C;
ambient air temperature 30°C,
ground temperature 20°C
depth 0,7m
soil-thermal resistivity of dry area 2,5 k · m/W

Number of loaded cores	2	3, 4, 5	2	3, 4, 5
	laying in ground		laying in air	
Cross-section, mm^2	Current ratings in Ampere (A)			
1,5	34	28	22	18,5
2,5	45	36	30	25
4	59	48	40	34
6	73	61	51	43
10	98	81	70	60
16	127	105	88	80

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