

# DATA SHEET

**CONTROL-Y-JZ UL**

**UL/CSA recognized control cable with PVC jacket**

**specification :  
AVLV2 E140404**



**BALZER KABELWERK MEISSEN product specification  
UL 1000V, 80°C / CSA 600V, 80°C UL Style 2570, 10012  
CSA C22.2 No. 210-05**

## Application

This wire is defined for using as connecting wire for control boxes from tooling machines, assembly lines, conveying systems and so on by medium mechanical conditions. This wire is qualified for fixed laying and for casual movements in dry, humid and wet rooms. It is possible to use the wire in open air in case of allowing the temperature range. For respective specific application the demands of HD 516 are valid.



## Cable Make-up

conductor:	bare copper in acc. to DIN EN 60228, class 5
insulation:	special PVC, TI 1/2 in acc. to HD 21.1
colors of cores:	black with white numbers; one core green/yellow
core stranding:	short length of layers
jacket:	special PVC, TM 1/2 in acc. to HD 21.1; UV-stabilized
color of jacket:	black
weatherproof:	UV-resistant, hydrolyze-resistant, water-resistant

## marking

BALZER KABELWERK MEISSEN Control-UL-Y-JZ X G X (XX AWG) CE 600/1000V E140404 RU AWM 2570 80°C 1000V VW-1 LL64683 CSA AWM II A/B 80°C 600V FT1

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type	Number of cores x cross section	Outer diameter in mm (appr.)	Weight in kg/km (appr.)	Copper in kg/km
CONTROL -Y-OZ	2x1,5	10,5 ± 0,3	140	28,8
CONTROL -Y-JZ	3G2,5	12,3 ± 0,3	210	72
CONTROL -Y-JZ	4G2,5	13,1 ± 0,3	255	96
CONTROL -Y-JZ	5G2,5	14,2 ± 0,3	300	120
CONTROL -Y-JZ	7G2,5	15,3 ± 0,3	370	168
CONTROL -Y-JZ	12G2,5	19,6 ± 0,3	585	288
CONTROL -Y-JZ	18G2,5	22,8 ± 0,3	825	432
CONTROL -Y-JZ	25G2,5	26,8 ± 0,3	1130	600
CONTROL -Y-JZ	7G4	17,2 ± 0,4	485	269
CONTROL -Y-JZ	4G6	14,5+0,4	398	232
CONTROL -Y-JZ	5G16	25,3 ± 0,7	1200	768
CONTROL -Y-JZ	5G25	30,7 ± 0,9	1780	1200
CONTROL -Y-JZ	5G35	34,8 ± 0,9	2290	1680

## Technical data

nominal voltage :	HAR:	U <sub>0</sub> /U 600/1000V
test voltage : core/core		4kV AC 5min
resistance: by 20°C	1,5mm <sup>2</sup>	R ≤ 13,3 Ohm/km
	2,5mm <sup>2</sup>	R ≤ 7,98 Ohm/km
	4mm <sup>2</sup>	R ≤ 4,95 Ohm/km
	16mm <sup>2</sup>	R ≤ 1,21 Ohm/km
	25mm <sup>2</sup>	R ≤ 0,780 Ohm/km
	35mm <sup>2</sup>	R ≤ 0,554 Ohm/km
fire resistance :		DIN EN 60332-1-2 UL1581 vertical flame test (VW-1) CSA C22.2 No. 210-05 vertical flame test (FT1)

## temperature range

at conductor:	in service	HAR:	-30°C to + 70 °C
	under short-circuit conditions		+ 150 °C
at surface:	flexing		-5 °C to + 60 °C
	static		- 40 °C to + 80 °C

## bending radius

	flexing	R ≥ 15 x cable diameter
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	static	$R \geq 4 \times$ cable diameter
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