

# JZ-600-Y-CY UL/CSA flexible, number coded, 0,6/1kV, EMC-preferred type



## Technical data

- Special PVC control cables
- Adapted to DIN VDE 0276 part 627, DIN VDE 0281 part 13, with insulation thickness for 1 kV type and UL-Std. 758 Style 21179
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +90°C
- **Nominal voltage**  $U_0/U$  0,6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Power rating**  
according to DIN VDE 0298
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to  $80 \times 10^6$  cJ/kg (up to 80 Mrad)
- **Coupling resistance**  
max. 250 Ohm/km

## Cable construction

- Bare copper, fine wire conductors, according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1, class 43 UL-Std. 1581
- Black cores with sequential numbering imprinted in white, according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- PVC-insulated inner sheath TM2, to DIN VDE 0281 part 1, class 43 UL-Std. 1581
- Braided screen of tinned Cu wires, coverage approx. 85%
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1 class 43 UL-Std. 1581
- Colour black (RAL 9005) or grey (RAL 7001)

## Properties

- Extensively oil resistant  
Chemical Resistance - see table Technical Informations
- Resistant to ultra violet rays
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B) VW1, FT1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Wiring cable for measuring and controlling purposes in tool machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. Suitable for installation for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms as well as outside (fixed installation). Is not suitable to be used as direct burial- or as underwater cable. Interference-free transmission of signals and pulses is assured by the high degree of screening.

**EMC** = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the cooper braiding on both ends.

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No. Colour black	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
12345	2 x 0,5	20	8,3	30,0	129,0
12346	3 G 0,5	20	8,6	39,0	150,0
12347	4 G 0,5	20	9,4	52,0	170,0
12348	5 G 0,5	20	10,1	61,0	199,0
12349	7 G 0,5	20	12,1	75,0	235,0
12350	12 G 0,5	20	14,7	130,0	320,0
12351	18 G 0,5	20	17,3	170,0	428,0
12352	25 G 0,5	20	20,6	230,0	503,0
12353	2 x 0,75	19	8,7	39,0	143,0
12354	3 G 0,75	19	9,0	57,0	155,0
12355	4 G 0,75	19	9,9	68,0	190,0
12356	5 G 0,75	19	10,8	79,0	228,0
12357	7 G 0,75	19	13,0	96,0	323,0
12358	12 G 0,75	19	15,8	169,0	410,0
12359	18 G 0,75	19	17,9	224,0	560,0
12360	25 G 0,75	19	22,8	292,0	730,0
12361	2 x 1	18	9,4	58,0	150,0
12362	3 G 1	18	9,8	67,0	163,0
12363	4 G 1	18	10,8	78,0	200,0
12364	5 G 1	18	12,1	94,0	239,0
12365	7 G 1	18	14,5	122,0	289,0
12366	12 G 1	18	17,4	201,0	464,0
12367	18 G 1	18	20,7	275,0	628,0
12368	25 G 1	18	24,8	364,0	855,0

Part No. Colour grey	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
12410	2 x 0,5	20	8,3	30,0	129,0
12411	3 G 0,5	20	8,6	39,0	150,0
12412	4 G 0,5	20	9,4	52,0	170,0
12413	5 G 0,5	20	10,1	61,0	199,0
12414	7 G 0,5	20	12,1	75,0	235,0
12415	12 G 0,5	20	14,7	130,0	320,0
12416	18 G 0,5	20	17,3	170,0	428,0
12417	25 G 0,5	20	20,6	230,0	503,0
12418	2 x 0,75	19	8,7	39,0	143,0
12419	3 G 0,75	19	9,0	57,0	155,0
12420	4 G 0,75	19	9,9	68,0	190,0
12421	5 G 0,75	19	10,8	79,0	228,0
12422	7 G 0,75	19	13,0	96,0	323,0
12423	12 G 0,75	19	15,8	169,0	410,0
12424	18 G 0,75	19	17,9	224,0	560,0
12425	25 G 0,75	19	22,8	292,0	730,0
12426	2 x 1	18	9,4	58,0	150,0
12427	3 G 1	18	9,8	67,0	163,0
12428	4 G 1	18	10,8	78,0	200,0
12429	5 G 1	18	12,1	94,0	239,0
12430	7 G 1	18	14,5	122,0	289,0
12431	12 G 1	18	17,4	201,0	464,0
12432	18 G 1	18	20,7	275,0	628,0
12433	25 G 1	18	24,8	364,0	855,0

Dimensions and specifications may be changed without prior notice.

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