

JZ-600-Y-CY flexible, number coded, 0,6/1kV, Cu screened

EMC-preferred type



HELUKABEL JZ-600 Y-CY 4G2,5 QMM / 11576 0,6/1 kV 001041222 CE

RoHS

Technical data

- Special control cables with thermoplastic PVC insulation On the basis of DIN VDE 0262/12.95 and DIN VDE 0281 part 13
- **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 MΩm 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 80x10⁶ cJ/kg (up to 80 Mrad)
- **Coupling resistance**
max. 250 Ωm/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
- 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
- Braided screen of tinned Cu wires, coverage approx. 85%
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- colour black (RAL 9005)

Properties

- Extensively oil resistant
- Chemical Resistance - see table Technical Informations
- 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)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- Resistant to ultra violet rays

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- Further sizes are available upon request.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

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. The cores have been numbered in such a way that the numbers are easily identifiable, even if the cable has only been stripped back a few cm. The core numbers have been underlined to avoid confusion. The earth core is located in the outer layer. The black, special PVC outer sheath is resistant to the ultra violet radiation. Mainly used in South-European, Eastern and Arabian countries. 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 copper braiding on both ends.

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

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
11464	2 x 0,5	8,3	30,0	129,0	20
11465	3 G 0,5	8,6	39,0	150,0	20
11466	4 G 0,5	9,4	52,0	170,0	20
11467	5 G 0,5	10,1	61,0	199,0	20
11469	7 G 0,5	12,1	75,0	235,0	20
11472	12 G 0,5	14,7	130,0	320,0	20
11475	18 G 0,5	17,3	170,0	428,0	20
11478	25 G 0,5	20,6	230,0	503,0	20
11489	2 x 0,75	8,7	39,0	143,0	18
11490	3 G 0,75	9,0	57,0	155,0	18
11491	4 G 0,75	9,9	68,0	190,0	18
11492	5 G 0,75	10,8	79,0	228,0	18
11494	7 G 0,75	13,0	96,0	323,0	18
11498	12 G 0,75	15,8	169,0	410,0	18
11501	18 G 0,75	17,9	224,0	560,0	18
11504	25 G 0,75	22,8	292,0	730,0	18
11516	2 x 1	9,4	51,8	150,0	17
11517	3 G 1	9,8	67,0	163,0	17
11518	4 G 1	10,8	78,0	200,0	17
11519	5 G 1	12,1	94,0	239,0	17
11521	7 G 1	14,5	122,0	289,0	17
11525	12 G 1	17,4	201,0	464,0	17
11528	18 G 1	20,7	275,0	628,0	17
11532	25 G 1	24,8	364,0	855,0	17

Part No.	No. cores x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
11546	2 x 1,5	10,2	68,0	162,0	16
11547	3 G 1,5	10,9	84,0	187,0	16
11548	4 G 1,5	12,2	104,0	240,0	16
11549	5 G 1,5	13,3	123,0	289,0	16
11551	7 G 1,5	16,0	180,0	383,0	16
11556	12 G 1,5	19,6	284,0	592,0	16
11559	18 G 1,5	23,4	390,0	806,0	16
11563	25 G 1,5	28,2	521,0	1241,0	16
11574	2 x 2,5	11,5	99,0	272,0	14
11575	3 G 2,5	12,2	124,0	298,0	14
11576	4 G 2,5	13,4	170,0	345,0	14
11577	5 G 2,5	14,9	202,0	427,0	14
11578	7 G 2,5	17,9	268,0	561,0	14
11580	12 G 2,5	21,9	423,0	857,0	14
11582	18 G 2,5	26,1	572,0	1355,0	14
11584	25 G 2,5	31,9	740,0	1995,0	14
11590	2 x 4	14,3	156,0	306,0	12
11591	3 G 4	15,1	191,0	391,0	12
11592	4 G 4	16,7	236,0	527,0	12
11593	5 G 4	18,6	303,0	700,0	12
11594	7 G 4	20,0	394,0	920,0	12
11596	12 G 4	26,9	542,0	1510,0	12
11597	2 x 6	16,0	194,0	420,0	10
11598	3 G 6	17,0	251,0	629,0	10

Dimensions and specifications may be changed without prior notice.

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