HELUKABEL® JZ-600 number coded, flexible 0,6/1 kV

Technical data

- Special PVC control cables
- Adapted to DIN VDE 0262/12.95 and DIN VDE 0281 part 13, with insulation thickness for 1 kV type
- **Temperature range**
  flexing – 5° C to +80° C
  fixed installation –40° C to +80° C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4000 V
- **Insulation resistance**
  min. 20 MOhm x km
- **Power rating**
  as per DIN VDE 0298
- **Minimum bending radius**
  for permanent approx. 7,5 x cable ∅
- **Radiation resistance**
  up to 80 x 10^6 cJ/kg (up to 80 Mrad)
- **Resistant to ultra violet rays**

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Cable structure

- Bare copper, fine wire conductors, as per DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Black cores with white figure imprints to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Separating foil
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
  colour black
- Extensively oil resistant
  Chemical Resistance – see table Technical Informations
- PVC self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-1

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 burrial- 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.

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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. mm²	Outer ∅ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
10550 OZ	2 x 0,5	6,4	9,6	56	20
10551	3 G 0,5	6,8	14,4	68	20
10552 OZ	3 x 0,5	6,8	14,4	68	20
10553	4 G 0,5	7,6	19,0	100	20
10554 OZ	4 x 0,5	7,6	19,0	100	20
10555	5 G 0,5	8,2	24,0	117	20
10556 OZ	5 x 0,5	8,2	24,0	117	20
10557	6 G 0,5	9,1	29,0	126	20
10558	7 G 0,5	9,8	33,6	138	20
10559 OZ	7 x 0,5	9,8	33,6	138	20
10560*	8 G 0,5	10,7	38,0	150	20
10561 OZ	8 x 0,5	10,7	38,0	150	20
10562	10 G 0,5	11,6	48,0	176	20
10563	12 G 0,5	12,2	58,0	200	20
10564 OZ	12 x 0,5	12,2	58,0	200	20
10565	14 G 0,5	12,8	67,0	230	20
10566	16 G 0,5	13,7	76,0	250	20
10567	18 G 0,5	14,4	86,0	276	20
10568	20 G 0,5	15,3	96,0	293	20
10569	21 G 0,5	16,0	96,0	305	20
10570	25 G 0,5	17,2	120,0	335	20
10571	30 G 0,5	18,0	144,0	348	20
10572	32 G 0,5	18,9	154,0	355	20
10573	34 G 0,5	19,8	163,0	520	20
10574	40 G 0,5	21,2	192,0	590	20
10575	42 G 0,5	21,2	202,0	595	20
10576	50 G 0,5	23,4	240,0	715	20
10577	52 G 0,5	24,3	252,0	740	20
10578	61 G 0,5	26,0	293,0	840	20
10579	65 G 0,5	26,8	312,0	880	20
10580	80 G 0,5	28,9	384,0	960	20
10581	100 G 0,5	33,5	480,0	1050	20

Part No.	No. cores x cross-sec. mm²	Outer ∅ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
10582 OZ	2 x 0,75	6,8	14,4	66	18
10583*	3 G 0,75	7,2	21,6	74	18
10584 OZ	3 x 0,75	7,2	21,6	74	18
10585*	4 G 0,75	8,0	29,0	126	18
10586 OZ	4 x 0,75	8,0	29,0	126	18
10587	5 G 0,75	8,8	36,0	140	18
10588 OZ	5 x 0,75	8,8	36,0	140	18
10589	6 G 0,75	9,7	43,0	170	18
10590 OZ	6 x 0,75	9,7	43,0	170	18
10591	7 G 0,75	10,7	50,0	190	18
10592 OZ	7 x 0,75	10,7	50,0	190	18
10593	8 G 0,75	11,5	58,0	212	18
10594 OZ	8 x 0,75	11,5	58,0	212	18
10595	9 G 0,75	12,5	65,0	227	18
10596	10 G 0,75	12,7	72,0	238	18
10597*	12 G 0,75	13,1	86,0	257	18
10598 OZ	12 x 0,75	13,1	86,0	257	18
10599	14 G 0,75	13,9	101,0	286	18
10600	15 G 0,75	14,7	108,0	319	18
10601	18 G 0,75	15,6	130,0	362	18
10602	20 G 0,75	16,6	144,0	394	18
10603	21 G 0,75	17,3	151,0	422	18
10604	25 G 0,75	18,9	180,0	486	18
10605	32 G 0,75	20,5	230,0	595	18
10606	34 G 0,75	21,5	245,0	638	18
10607	37 G 0,75	21,5	260,0	696	18
10608	40 G 0,75	23,2	288,0	726	18
10609	41 G 0,75	23,2	296,0	750	18
10610	42 G 0,75	23,2	302,0	770	18
10611	50 G 0,75	25,6	360,0	895	18
10612	61 G 0,75	28,2	439,0	1070	18
10613	65 G 0,75	29,0	468,0	1110	18
10614	80 G 0,75	31,4	576,0	1500	18
10615	100 G 0,75	36,2	720,0	1889	18

Continuation ▶

* These dimensions are also available with red resp. blue cores.
G = with green-yellow earth core
X = without green-yellow earth core (OZ)
PVC cables will be changed to lead free PVC successively.
***) Note**
AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

Cable types UL/CSA approved
- HELUKABEL JZ-600 UL/CSA/JZ-600-Y-CY UL/CSA see pages A 64 – A 65
- HELUKABEL JZ-600 PUR/JZ-600-Y-CPUR see pages A 66 – A 67

HELUKABEL® JZ-600 number coded, flexible 0,6/1 kV

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. mm²	Outer ⌀ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
10616 OZ	2x1	7,4	19,2	80	17
10617*	3G1	8,0	29,0	96	17
10618 OZ	3x1	8,0	29,0	96	17
10619*	4G1	8,8	38,4	100	17
10620 OZ	4x1	8,8	38,4	100	17
10621*	5G1	9,8	48,0	130	17
10622 OZ	5x1	9,8	48,0	130	17
10623	6G1	10,8	58,0	150	17
10624*	7G1	11,7	67,0	170	17
10625 OZ	7x1	11,7	67,0	170	17
10626*	8G1	12,8	77,0	230	17
10627	9G1	13,9	86,0	250	17
10628	10G1	14,1	96,0	270	17
10629 OZ	10x1	14,1	96,0	270	17
10630*	12G1	14,5	115,0	290	17
10631 OZ	12x1	14,5	115,0	290	17
10632*	14G1	15,5	134,0	320	17
10633	16G1	16,5	154,0	360	17
10634*	18G1	17,3	173,0	405	17
10635 OZ	18x1	17,3	173,0	405	17
10636	20G1	18,4	192,0	450	17
10637 OZ	20x1	18,4	192,0	480	17
10638	21G1	19,4	205,0	510	17
10639	24G1	20,3	236,0	550	17
10640*	25G1	21,1	240,0	570	17
10641 OZ	25x1	21,1	240,0	570	17
10642	26G1	21,1	252,0	590	17
10643 OZ	30x1	22,0	308,0	650	17
10644*	34G1	24,0	326,0	750	17
10645	36G1	24,0	346,0	790	17
10646	40G1	25,9	384,0	850	17
10647 OZ	40x1	25,9	384,0	850	17
10648	41G1	25,9	394,0	890	17
10649	42G1	25,9	403,0	900	17
10650*	50G1	28,5	480,0	1100	17
10651	56G1	29,3	538,0	1190	17
10652	61G1	31,4	586,0	1266	17
10653	65G1	32,5	628,0	1560	17
10654	80G1	34,8	786,0	1810	17
10655	100G1	40,1	960,0	1950	17
10656 OZ	2x1,5	8,4	29,0	95	16
10657*	3G1,5	9,1	43,0	112	16
10658 OZ	3x1,5	9,1	43,0	112	16
10659*	4G1,5	9,9	58,0	139	16
10660 OZ	4x1,5	9,9	58,0	139	16
10661*	5G1,5	11,0	72,0	170	16
10662 OZ	5x1,5	11,0	72,0	170	16
10663	6G1,5	12,3	86,0	190	16
10664*	7G1,5	13,3	101,0	225	16
10665 OZ	7x1,5	13,3	101,0	225	16
10666	8G1,5	14,5	115,0	250	16
10667	9G1,5	15,7	130,0	280	16
10668	10G1,5	15,9	144,0	300	16
10669	11G1,5	16,6	158,0	330	16
10670*	12G1,5	16,6	173,0	370	16
10671 OZ	12x1,5	16,6	173,0	370	16
10672	14G1,5	17,4	202,0	400	16
10673	16G1,5	18,5	230,0	450	16
10674*	18G1,5	19,7	259,0	520	16
10675	19G1,5	20,9	279,0	550	16
10676	20G1,5	20,9	288,0	600	16
10677	21G1,5	22,0	302,0	600	16
10678*	25G1,5	23,9	360,0	730	16
10679*	32G1,5	26,0	461,0	880	16
10680*	34G1,5	27,2	490,0	950	16
10681	40G1,5	29,3	576,0	990	16
10682	42G1,5	29,5	605,0	1120	16
10683	50G1,5	32,5	720,0	1400	16
10684	56G1,5	33,5	806,0	1530	16
10685	61G1,5	35,7	878,0	1700	16
10686	65G1,5	36,8	936,0	1900	16

Part No.	No. cores x cross-sec. mm²	Outer ⌀ ca. mm	Cop. weight kg/km	Weight ca. kg/km	AWG-no.*)
10687	80G1,5	39,9	1152,0	2300	16
10688	100G1,5	45,6	1440,0	2700	16
10689 OZ	2x2,5	9,4	48,0	160	14
10690	3G2,5	9,9	72,0	175	14
10691 OZ	3x2,5	9,9	72,0	175	14
10692	4G2,5	11,1	96,0	203	14
10693 OZ	4x2,5	11,1	96,0	203	14
10694	5G2,5	12,4	120,0	251	14
10695 OZ	5x2,5	12,4	120,0	251	14
10696	7G2,5	15,0	168,0	330	14
10697 OZ	7x2,5	15,0	168,0	330	14
10698	8G2,5	16,1	192,0	400	14
10699	12G2,5	18,4	288,0	553	14
10700	14G2,5	19,6	336,0	630	14
10701	18G2,5	22,0	432,0	795	14
10702	21G2,5	24,6	504,0	930	14
10703	25G2,5	26,9	600,0	1110	14
10704	34G2,5	30,4	816,0	1450	14
10705	42G2,5	33,0	1008,0	1750	14
10706	50G2,5	36,2	1200,0	2100	14
10707	61G2,5	40,1	1464,0	2540	14
10708	100G2,5	49,0	2400,0	3850	14
10709 OZ	2x4	11,4	77,0	180	12
10710	3G4	12,3	115,0	230	12
10711	4G4	13,8	154,0	310	12
10712	5G4	15,3	192,0	410	12
10713	7G4	16,8	269,0	540	12
10714	8G4	20,0	307,0	710	12
10715	12G4	22,9	461,0	860	12
10716	3G6	14,1	173,0	370	10
10717	4G6	15,6	230,0	430	10
10718	5G6	17,3	288,0	650	10
10719	7G6	19,3	403,0	860	10
10720	3G10	16,5	288,0	660	8
10721	4G10	18,4	384,0	790	8
10722	5G10	20,5	480,0	960	8
10723	7G10	22,5	672,0	1300	8
10724	3G16	19,1	461,0	700	6
10725	4G16	21,2	614,0	1100	6
10726	5G16	23,6	768,0	1600	6
10727	7G16	25,8	1075,0	1890	6
10728	3G25	24,0	720,0	1450	4
10729	4G25	26,9	960,0	1600	4
10730	5G25	29,3	1200,0	2050	4
10731	7G25	32,6	1680,0	2900	4
10732*	3G35	26,2	1008,0	1900	2
10733*	4G35	29,4	1344,0	2400	2
10734*	5G35	32,8	1680,0	2900	2
10735*	3G50	30,5	1440,0	2700	1
10736*	4G50	34,2	1920,0	3400	1
10742**	5G50	38,0	2400,0	4361	1
10737*	3G70	36,7	2016,0	3300	2/0
10738*	4G70	41,0	2688,0	4400	2/0
10743**	5G70	45,7	3360,0	5807	2/0
10739*	3G95	41,2	2736,0	5050	3/0
10740*	4G95	46,2	3648,0	6010	3/0
10744**	5G95	50,7	4560,0	7752	3/0
10741*	4G120	50,3	4608,0	7500	4/0
10745	4G150	57,8	5760,0	8640	300 MCM
10746	4G185	64,8	7104,0	10380	350 MCM

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- HELUKABEL JZ-600 PUR/JZ-600-Y-CPUR see pages A 66 – A 67