



HELUKABEL® JZ-600 4G2,5 QMM / 10692 0,6/1 kV CE

TECHNICAL DATA

PVC control and connection cable in alignment with DIN VDE 0262, DIN VDE 0285-525-2-51 / DIN EN 50525-2-51

Temperature range	flexible -15°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U ₀ /U 600/1000 V
Test voltage core/core	4000 V
Breakdown voltage	8000 V
Minimum bending radius	flexible 7.5x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC acc. to DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: UV radiation, weathering effects

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10550	2 x 0.5	20	6.2	9.6	56.0
10551	3 G 0.5	20	6.5	14.4	68.0
10552	3 x 0.5	20	6.5	14.4	68.0
10553	4 G 0.5	20	7.0	19.0	100.0
10554	4 x 0.5	20	7.0	19.0	100.0
10555	5 G 0.5	20	7.9	24.0	117.0
10556	5 x 0.5	20	7.9	24.0	117.0
10557	6 G 0.5	20	8.5	29.0	126.0
10558	7 G 0.5	20	8.5	33.6	138.0
10559	7 x 0.5	20	8.5	33.6	138.0
10560	8 G 0.5	20	9.4	38.0	150.0
10561	8 x 0.5	20	9.4	38.0	150.0
10562	10 G 0.5	20	11.0	48.0	176.0
10563	12 G 0.5	20	11.3	58.0	200.0
10564	12 x 0.5	20	11.3	58.0	200.0
10565	14 G 0.5	20	11.9	67.0	230.0
10566	16 G 0.5	20	12.7	76.0	250.0
10567	18 G 0.5	20	13.3	86.0	276.0
10568	20 G 0.5	20	14.2	96.0	293.0
10569	21 G 0.5	20	14.2	96.0	305.0
10570	25 G 0.5	20	15.8	120.0	335.0

- largely resistant to: oil, for details, see "Technical Information"
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2
- certifications and approvals: EAC

APPLICATION

Used as a connection and control cable in machine tools, assembly lines and conveyor belts, production lines, in plant construction, heating and air-conditioning technology, in smelters and steel mills. Suitable for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors (fixed installation). May not be laid directly in soil (suitable for direct burial starting with an outer diameter of 18.0 mm) or water. Primarily used in southern European and Arabic countries, as well as in eastern states.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10571	30 G 0.5	20	16.9	144.0	348.0
10572	32 G 0.5	20	18.7	154.0	355.0
10573	34 G 0.5	20	19.3	163.0	520.0
10574	40 G 0.5	20	20.0	192.0	590.0
10575	42 G 0.5	20	20.6	202.0	595.0
10576	50 G 0.5	20	22.3	240.0	715.0
10577	52 G 0.5	20	22.3	252.0	740.0
10578	61 G 0.5	20	23.5	293.0	840.0
10579	65 G 0.5	20	24.2	312.0	880.0
10580	80 G 0.5	20	26.7	384.0	960.0
10581	100 G 0.5	20	29.7	480.0	1050.0
10582	2 x 0.75	19	6.7	14.4	66.0
10583	3 G 0.75	19	7.1	21.6	74.0
10584	3 x 0.75	19	7.1	21.6	74.0
10585	4 G 0.75	19	7.7	29.0	126.0
10586	4 x 0.75	19	7.7	29.0	126.0
10587	5 G 0.75	19	8.5	36.0	140.0
10588	5 x 0.75	19	8.5	36.0	140.0
10589	6 G 0.75	19	9.5	43.0	170.0
10590	6 x 0.75	19	9.5	43.0	170.0
10591	7 G 0.75	19	9.5	50.0	190.0

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Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10592	7 x 0.75	19	9.5	50.0	190.0
10593	8 G 0.75	19	10.2	58.0	212.0
10594	8 x 0.75	19	10.2	58.0	212.0
10595	9 G 0.75	19	11.1	65.0	227.0
10596	10 G 0.75	19	12.2	72.0	238.0
10597	12 G 0.75	19	12.6	86.0	257.0
10598	12 x 0.75	19	12.6	86.0	257.0
10599	14 G 0.75	19	13.2	101.0	286.0
10600	15 G 0.75	19	14.0	108.0	319.0
10601	18 G 0.75	19	14.8	130.0	362.0
10602	20 G 0.75	19	15.7	144.0	394.0
10603	21 G 0.75	19	15.7	151.0	422.0
10604	25 G 0.75	19	17.5	180.0	486.0
10605	32 G 0.75	19	20.3	230.0	595.0
10606	34 G 0.75	19	21.1	245.0	638.0
10607	37 G 0.75	19	21.1	260.0	696.0
10608	40 G 0.75	19	21.8	288.0	726.0
10609	41 G 0.75	19	22.5	296.0	750.0
10610	42 G 0.75	19	22.5	302.0	770.0
10611	50 G 0.75	19	24.4	360.0	895.0
10612	61 G 0.75	19	25.8	439.0	1070.0
10613	65 G 0.75	19	26.7	468.0	1110.0
10614	80 G 0.75	19	29.7	576.0	1500.0
10615	100 G 0.75	19	33.0	720.0	1889.0
10616	2 x 1	18	7.0	19.2	80.0
10617	3 G 1	18	7.4	29.0	96.0
10618	3 x 1	18	7.4	29.0	96.0
10619	4 G 1	18	8.2	38.4	100.0
10620	4 x 1	18	8.2	38.4	100.0
10621	5 G 1	18	9.0	48.0	130.0
10622	5 x 1	18	9.0	48.0	130.0
10623	6 G 1	18	9.9	58.0	150.0
10624	7 G 1	18	9.9	67.0	170.0
10625	7 x 1	18	9.9	67.0	170.0
10626	8 G 1	18	10.9	77.0	230.0
10627	9 G 1	18	11.7	86.0	250.0
10628	10 G 1	18	12.8	96.0	270.0
10629	10 x 1	18	12.8	96.0	270.0
10630	12 G 1	18	13.2	115.0	290.0
10631	12 x 1	18	13.2	115.0	290.0
10632	14 G 1	18	14.0	134.0	320.0
10633	16 G 1	18	14.8	154.0	360.0
10634	18 G 1	18	15.7	173.0	405.0
10635	18 x 1	18	15.7	173.0	405.0
10636	20 G 1	18	16.7	192.0	450.0
10637	20 x 1	18	16.7	192.0	480.0
10638	21 G 1	18	16.7	205.0	510.0
10639	24 G 1	18	19.6	236.0	550.0
10640	25 G 1	18	19.6	240.0	570.0
10641	25 x 1	18	19.6	240.0	570.0
10642	26 G 1	18	19.6	252.0	590.0
10643	30 x 1	18	20.6	308.0	650.0
10644	34 G 1	18	22.1	326.0	750.0
10645	36 G 1	18	22.1	346.0	790.0
10646	40 G 1	18	22.9	384.0	850.0
10647	40 x 1	18	22.9	384.0	850.0
10648	41 G 1	18	23.7	394.0	890.0
10649	42 G 1	18	23.7	403.0	900.0
10650	50 G 1	18	25.6	480.0	1100.0
10651	56 G 1	18	26.4	538.0	1190.0
10652	61 G 1	18	27.3	586.0	1266.0
10653	65 G 1	18	28.3	628.0	1560.0
10654	80 G 1	18	31.5	786.0	1810.0
10655	100 G 1	18	35.0	960.0	1950.0
10656	2 x 1.5	16	8.2	29.0	95.0
10657	3 G 1.5	16	8.7	43.0	112.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10658	3 x 1.5	16	8.7	43.0	112.0
10659	4 G 1.5	16	9.7	58.0	139.0
10660	4 x 1.5	16	9.7	58.0	139.0
10661	5 G 1.5	16	10.5	72.0	170.0
10662	5 x 1.5	16	10.5	72.0	170.0
10663	6 G 1.5	16	11.6	86.0	190.0
10664	7 G 1.5	16	11.6	101.0	225.0
10665	7 x 1.5	16	11.6	101.0	225.0
10666	8 G 1.5	16	12.7	115.0	250.0
10667	9 G 1.5	16	13.9	130.0	280.0
10668	10 G 1.5	16	15.2	144.0	300.0
10669	11 G 1.5	16	15.2	158.0	330.0
10670	12 G 1.5	16	15.7	173.0	370.0
10671	12 x 1.5	16	15.7	173.0	370.0
10672	14 G 1.5	16	16.6	202.0	400.0
10673	16 G 1.5	16	17.5	230.0	450.0
10674	18 G 1.5	16	19.6	259.0	520.0
10675	19 G 1.5	16	19.6	279.0	550.0
10676	20 G 1.5	16	20.6	288.0	600.0
10677	21 G 1.5	16	20.6	302.0	600.0
10678	25 G 1.5	16	22.6	360.0	730.0
10679	32 G 1.5	16	24.7	461.0	880.0
10680	34 G 1.5	16	25.6	490.0	950.0
10681	40 G 1.5	16	26.8	576.0	990.0
10682	42 G 1.5	16	27.7	605.0	1120.0
10683	50 G 1.5	16	30.4	720.0	1400.0
10684	56 G 1.5	16	31.5	806.0	1530.0
10685	61 G 1.5	16	32.6	878.0	1700.0
10686	65 G 1.5	16	33.5	936.0	1900.0
10687	80 G 1.5	16	37.5	1152.0	2300.0
10688	100 G 1.5	16	41.8	1440.0	2700.0
10689	2 x 2.5	14	9.6	48.0	160.0
10690	3 G 2.5	14	10.1	72.0	175.0
10691	3 x 2.5	14	10.1	72.0	175.0
10692	4 G 2.5	14	11.2	96.0	203.0
10693	4 x 2.5	14	11.2	96.0	203.0
10694	5 G 2.5	14	12.5	120.0	251.0
10695	5 x 2.5	14	12.5	120.0	251.0
10696	7 G 2.5	14	13.8	168.0	330.0
10697	7 x 2.5	14	13.8	168.0	330.0
10698	8 G 2.5	14	15.1	192.0	400.0
10699	12 G 2.5	14	19.6	288.0	553.0
10700	14 G 2.5	14	20.5	336.0	630.0
10701	18 G 2.5	14	22.6	432.0	795.0
10702	21 G 2.5	14	23.8	504.0	930.0
10703	25 G 2.5	14	26.2	600.0	1110.0
10704	34 G 2.5	14	30.4	816.0	1450.0
10705	42 G 2.5	14	33.0	1008.0	1750.0
10706	50 G 2.5	14	36.3	1200.0	2100.0
10707	61 G 2.5	14	38.8	1464.0	2540.0
10708	100 G 2.5	14	50.0	2400.0	3850.0
10709	2 x 4	12	11.0	77.0	180.0
10710	3 G 4	12	11.6	115.0	230.0
10711	4 G 4	12	12.9	154.0	310.0
10712	5 G 4	12	14.3	192.0	410.0
10713	7 G 4	12	15.8	269.0	540.0
10714	8 G 4	12	17.3	307.0	710.0
10715	12 G 4	12	22.1	461.0	860.0
10716	3 G 6	10	13.1	173.0	370.0
10717	4 G 6	10	14.5	230.0	430.0
10718	5 G 6	10	16.2	288.0	650.0
10719	7 G 6	10	19.0	403.0	860.0
10720	3 G 10	8	16.7	288.0	660.0
10721	4 G 10	8	19.5	384.0	790.0
10722	5 G 10	8	21.3	480.0	960.0
10723	7 G 10	8	23.2	672.0	1300.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10724	3 G 16	6	21.1	461.0	700.0
10725	4 G 16	6	22.9	614.0	1100.0
10726	5 G 16	6	25.2	768.0	1600.0
10727	7 G 16	6	27.6	1075.0	1890.0
10728	3 G 25	4	25.0	720.0	1450.0
10729	4 G 25	4	27.4	960.0	1600.0
10730	5 G 25	4	30.7	1200.0	2050.0
10731	7 G 25	4	34.0	1680.0	2900.0
10732	3 G 35	2	27.5	1008.0	1900.0
10733	4 G 35	2	30.4	1344.0	2400.0
10734	5 G 35	2	34.0	1680.0	2900.0
10735	3 G 50	1	32.2	1440.0	2700.0
10736	4 G 50	1	35.8	1920.0	3400.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
10742	5 G 50	1	39.9	2400.0	4361.0
10737	3 G 70	2/0	36.4	2016.0	3300.0
10738	4 G 70	2/0	40.4	2688.0	4400.0
10743	5 G 70	2/0	45.1	3360.0	5807.0
10739	3 G 95	3/0	41.9	2736.0	5050.0
10740	4 G 95	3/0	46.4	3648.0	6010.0
10744	5 G 95	3/0	51.7	4560.0	7752.0
10741	4 G 120	4/0	51.3	4608.0	7500.0
11007924	5 G 120	4/0	56.4	5760.0	7659.0
10745	4 G 150	300 kcmil	57.0	5760.0	8640.0
11007925	5 G 150	300 kcmil	62.9	7200.0	9562.0
10746	4 G 185	350 kcmil	62.8	7104.0	10380.0