



HELUCONTROL® PVC-FLAT 12G1,5 QMM / 27006 450/750 V CE

TECHNICAL DATA

PVC flat cable in alignment with DIN VDE 0283-2 / DIN EN 50214

Temperature range	flexible -25°C to +70°C fixed -40°C to +70°C
Nominal voltage	0.75 - 1 mm²: 300/500 V 1.5 - 70 mm²: 450/750 V
Test voltage core/core	0.75 - 1 mm²: 2000 V 1.5 - 70 mm²: 2500 V
Minimum bending radius	10x Cable height

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, 3 - 5 core(s): colour coded
6 - 24 core(s): black cores with consecutive labeling in white digits
- G = with protective conductor GN-YE
- Cores aligned parallel to each other, side by side
- Outer sheath: Special-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
- largely resistant to: oil, for details, see "Technical Information"
- very flexible
- significantly smaller bending radii than that of round cables
- space-saving
- installation in multiple layers possible

TESTS

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

APPLICATION

PVC flat cables are mainly used as trailing cables in crane systems, in floor conveyors and in storage and retrieval machines.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only
- Part no. 27012: cores stranded into bundles of four (6 x 4)
- the assembly instructions must be observed

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Height min - max mm	Width min - max mm	Cu factor per km	Weight kg/km, approx.
26980	4 G 0.75	19	3.7 - 4.2	11.0 - 12.6	28.8	95.0
26981	5 G 0.75	19	3.7 - 4.2	13.5 - 15.1	36.0	110.0
26982	6 G 0.75	19	3.7 - 4.2	16.0 - 17.6	43.2	139.0
26983	9 G 0.75	19	3.7 - 4.2	24.0 - 26.6	64.8	207.0
26984	10 G 0.75	19	3.7 - 4.2	26.5 - 29.9	72.0	218.0
26985	12 G 0.75	19	3.7 - 4.2	30.0 - 33.1	86.4	263.0
26986	16 G 0.75	19	3.7 - 4.2	40.4 - 44.4	115.2	349.0
26987	18 G 0.75	19	3.7 - 4.2	45.0 - 49.0	129.6	377.0
26988	20 G 0.75	19	3.8 - 4.2	61.6 - 64.2	144.0	425.0
26989	24 G 0.75	19	3.8 - 4.2	60.1 - 66.2	172.8	519.0
26990	3 G 1	18	3.9 - 4.4	9.2 - 11.3	28.8	81.0
26991	4 G 1	18	3.9 - 4.4	12.0 - 13.8	38.4	108.0
26992	5 G 1	18	3.9 - 4.4	14.0 - 16.2	48.0	130.0
26993	6 G 1	18	3.9 - 4.4	17.3 - 20.2	57.6	156.0
26994	9 G 1	18	3.9 - 4.4	26.0 - 29.2	86.4	240.0
26995	10 G 1	18	3.9 - 4.4	28.8 - 33.5	96.0	250.0
26996	12 G 1	18	3.9 - 4.4	31.8 - 35.5	115.2	309.0
26997	16 G 1	18	3.9 - 4.4	42.6 - 47.6	153.6	409.0
26998	18 G 1	18	3.9 - 4.4	48.4 - 52.1	172.8	455.0
26999	20 G 1	18	3.9 - 4.4	55.3 - 59.4	192.0	490.0
27000	24 G 1	18	3.9 - 4.4	66.3 - 71.4	230.4	598.0
27001	4 G 1.5	16	4.7 - 5.2	13.6 - 15.6	57.6	153.0
27002	5 G 1.5	16	4.7 - 5.2	16.2 - 18.8	72.0	189.0
27003	7 G 1.5	16	4.7 - 5.2	22.7 - 25.6	100.8	262.0
27004	8 G 1.5	16	4.7 - 5.2	25.4 - 28.3	115.2	291.0
27005	10 G 1.5	16	4.7 - 5.2	32.7 - 35.4	144.0	358.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Height min - max mm	Width min - max mm	Cu factor per km	Weight kg/km, approx.
27006	12 G 1.5	16	4.7 - 5.2	38.2 - 42.4	172.8	434.0
27028	16 G 1.5	16	4.7 - 5.2	49.7 - 53.2	230.4	574.0
27030	24 G 1.5	16	4.7 - 5.2	74.6 - 81.2	345.6	832.0
27007	4 G 2.5	14	5.3 - 5.8	16.9 - 19.2	96.0	224.0
27008	5 G 2.5	14	5.3 - 5.8	20.7 - 23.2	120.0	271.0
27009	7 G 2.5	14	5.3 - 5.8	28.6 - 31.4	168.0	379.0
27010	8 G 2.5	14	5.3 - 5.8	33.1 - 36.6	192.0	400.0
27011	12 G 2.5	14	5.3 - 5.8	48.4 - 52.5	288.0	629.0
27029	16 G 2.5	14	5.3 - 5.8	63.4 - 68.5	384.0	800.0
27012	24 G 2.5	14	14.2 - 16.6	70.1 - 77.1	576.0	1260.0
27027	24 G 2.5	14	5.3 - 5.8	91.2 - 96.9	576.0	1260.0
27013	4 G 4	12	6.2 - 6.8	19.0 - 22.1	153.6	308.0
27014	5 G 4	12	6.2 - 6.8	22.7 - 25.0	192.0	382.0
27015	7 G 4	12	6.2 - 6.8	33.0 - 36.0	268.8	535.0
27016	4 G 6	10	6.8 - 7.2	21.6 - 25.0	230.4	410.0
27017	5 G 6	10	6.8 - 7.2	25.6 - 28.1	288.0	502.0
27018	7 G 6	10	6.8 - 7.2	37.0 - 40.4	403.2	704.0
27019	4 G 10	8	8.5 - 9.5	26.5 - 29.0	384.0	656.0
27020	4 G 16	6	9.6 - 10.7	30.6 - 34.0	614.4	947.0
27025	5 G 16	6	9.6 - 10.7	38.8 - 42.0	768.0	1167.0
27021	4 G 25	4	11.8 - 13.2	38.6 - 42.0	960.0	1416.0
27026	5 G 25	4	11.4 - 13.8	48.8 - 53.0	1200.0	1680.0
27022	4 G 35	2	13.0 - 15.4	44.0 - 49.2	1344.0	1870.0
27023	4 G 50	1	15.0 - 16.6	51.4 - 56.6	1920.0	2553.0
27024	4 G 70	2/0	17.6 - 18.8	60.0 - 66.4	2688.0	3583.0