

# PVC-flat

300/500 V and 450/750 V



## Technical data

- Special PVC-flat cable adapted to EN 50214 / DIN VDE 0283-2

### Temperature range

flexing -5°C to +70°C  
fixed installation -40°C to +80°C

### Nominal voltage

up to 1 mm<sup>2</sup> U<sub>0</sub>/U 300/500 V  
from 1,5 mm<sup>2</sup> U<sub>0</sub>/U 450/750 V

### Test voltage

up to 1 mm<sup>2</sup> 2000 V  
from 1,5 mm<sup>2</sup> 2500 V

### Minimum bending radius

10x cable thickness

### Radiation resistance

up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of PVC compound type TI2 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293 - up to 5 cores coloured - from 7 cores, black with continuous white numbering
- Cores laying parallel
- GN-YE conductor
- Outer sheath of special PVC compound type TM2 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour black (RAL 9005)

## Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
  - Extremely small bending radius
  - High flexibility
  - Minimum waste of space
  - Packaging possibility
- ### Tests
- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

## Note

- Part no. 27012 (6x4).
- G = with green-yellow conductor
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.

## Application

PVC type of flat cables are used mainly as trailing cable for crane installations, floor conveyer systems and shelf control units.

### Installation notes

Cables reels with flat cables must be transported in standing position on the flange. A bending flexibility can be achieved on a plane surface. For this purpose, the corresponding fitting instructions should be followed.

- Put the cable trolly on the guiding rail or upon carrier beam and push them together at the starting point. The distance between the bedding surface of two cable trollys must be wider than the double thickness of a cable-packet.
- During the packaging performance, it must be started with the smaller cross section which lays on the bedding surface and will be builded successively so that the biggest cross section is laying on the top.
- Further, be careful of a symmetrical load distribution.
- In case of multicore flat cables with small cross section, smaller than 2,5 mm<sup>2</sup>, is very critical due to its low tensile stress. In such case, you should add 10% reserve wire for calculation.

CE = Product conforms with EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer dimension app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.	Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer dimension app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
26980	4 G 0,75	4,3 x 12,6	28,8	90,0	19	27006	12 G 1,5	4,5 x 38,9	173,0	421,0	16
26981	5 G 0,75	4,3 x 16,1	36,0	115,0	19	27028	16 G 1,5	4,5 x 51,5	230,4	555,0	16
26982	6 G 0,75	4,3 x 19,4	43,2	141,0	19	27030	24 G 1,5	4,5 x 83,0	346,0	820,0	16
26983	9 G 0,75	4,3 x 26,4	64,8	198,0	19	27007	4 G 2,5	5,5 x 17,0	96,0	205,0	14
26984	10 G 0,75	4,3 x 30,1	72,0	224,0	19	27008	5 G 2,5	5,5 x 21,5	120,0	256,0	14
26985	12 G 0,75	4,3 x 33,8	84,4	258,0	19	27009	7 G 2,5	5,5 x 30,3	168,0	344,0	14
26986	16 G 0,75	4,3 x 44,4	115,2	340,0	19	27010	8 G 2,5	5,5 x 31,9	192,0	389,0	14
26987	18 G 0,75	4,3 x 49,2	129,6	380,0	19	27011	12 G 2,5	5,8 x 47,1	288,0	580,0	14
26988	20 G 0,75	4,3 x 55,0	144,0	424,0	19	27029	16 G 2,5	5,8 x 55,1	384,0	674,0	14
26989	24 G 0,75	4,3 x 65,6	172,8	509,0	19	27012	24 G 2,5	5,8 x 63,0	604,0	950,0	14
26990	3 G 1	4,5 x 10,8	28,8	80,0	18	27027	24 G 2,5	5,8 x 120,0	604,0	950,0	14
26991	4 G 1	4,5 x 13,4	38,4	104,0	18	27013	4 G 4	7,0 x 21,8	154,0	344,0	12
26992	5 G 1	4,5 x 16,0	48,0	134,0	18	27014	5 G 4	7,0 x 27,4	192,0	428,0	12
26993	6 G 1	4,5 x 20,6	57,6	161,0	18	27015	7 G 4	7,9 x 36,6	269,0	590,0	12
26994	9 G 1	4,5 x 28,4	86,4	230,0	18	27016	4 G 6	8,2 x 24,8	230,0	424,0	10
26995	10 G 1	4,5 x 30,0	96,0	256,0	18	27017	5 G 6	8,2 x 31,8	288,0	530,0	10
26996	12 G 1	4,5 x 36,2	115,2	298,0	18	27018	7 G 6	8,2 x 42,6	403,0	760,0	10
26997	16 G 1	4,5 x 47,6	153,6	395,0	18	27019	4 G 10	10,0 x 29,6	384,0	710,0	8
26998	18 G 1	4,5 x 52,8	172,8	441,0	18	27020	4 G 16	11,2 x 34,4	614,0	1014,0	6
26999	20 G 1	4,5 x 59,0	192,0	495,0	18	27025	5 G 16	13,0 x 46,6	768,0	1370,0	6
27000	24 G 1	4,5 x 70,4	230,4	590,0	18	27021	4 G 25	13,7 x 42,6	960,0	1365,0	4
27001	4 G 1,5	4,5 x 13,7	58,0	133,0	16	27026	5 G 25	15,5 x 55,5	1200,0	2000,0	4
27002	5 G 1,5	4,5 x 17,9	72,0	169,0	16	27022	4 G 35	15,4 x 47,6	1344,0	2100,0	2
27003	7 G 1,5	4,5 x 23,5	101,0	235,0	16	27023	4 G 50	18,2 x 57,0	1920,0	2940,0	1
27004	8 G 1,5	4,5 x 26,8	115,0	265,0	16	27024	4 G 70	20,0 x 64,2	2688,0	4090,0	2/0
27005	10 G 1,5	4,5 x 33,5	144,0	332,0	16						

Dimensions and specifications may be changed without prior notice. (RJ01)

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