



Technical data

- Special PVC-flat cable, adapted to DIN VDE 0283 part 2 and 0281 part 404, IEC 60227-6
- **Temperature range**
flexing – 5°C to +70°C
fixed installation –40°C to +80°C
- **Nominal voltage**
up to 1 mm² U₀/U 300/500 V
≥ 1,5 mm² U₀/U 450/750 V
- **Test voltage** 3000 V
- **Minimum bending radius**
approx. 10x cable ∅
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)
- 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, stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation
- Cores laying parallel
- Core identification up to 5 cores to colour code DIN VDE 0293
7 cores and above with number printing
- Green-yellow earth core
- Special PVC outer jacket
- Colour black (RAL 9005)
- 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)

Advantages of flat cables

- Extremely small bending radius
- High flexibility
- Minimum waste of space
- Packaging possibility

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 packeting 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 mm², is very critical due to its low tensile stress. In such case, you should add 10% reserve wire for calculation.

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 ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
26980	4G0,75	4,3x12,6	28,8	90	18
26981	5G0,75	4,3x16,1	36,0	115	18
26982	6G0,75	4,3x19,4	43,2	141	18
26983	9G0,75	4,3x26,4	64,8	198	18
26984	10G0,75	4,3x30,1	72,0	224	18
26985	12G0,75	4,3x33,8	84,4	258	18
26986	16G0,75	4,3x44,4	115,2	340	18
26987	18G0,75	4,3x49,2	129,6	380	18
26988	20G0,75	4,3x55,0	144,0	424	18
26989	24G0,75	4,3x65,6	172,8	509	18
26990	3G1	4,5x10,8	28,8	80	17
26991	4G1	4,5x13,4	38,4	104	17
26992	5G1	4,5x16,0	48,0	134	17
26993	6G1	4,5x20,6	57,6	161	17
26994	9G1	4,5x28,4	86,4	230	17
26995	10G1	4,5x30,0	96,0	256	17
26996	12G1	4,5x36,2	115,2	298	17
26997	16G1	4,5x47,6	153,6	395	17
26998	18G1	4,5x52,8	172,8	441	17
26999	20G1	4,5x59,0	192,0	495	17
27000	24G1	4,5x70,4	230,4	590	17
27001	4G1,5	4,5x13,7	58,0	133	16
27002	5G1,5	4,5x17,9	72,0	169	16
27003	7G1,5	4,5x23,5	101,0	235	16
27004	8G1,5	4,5x26,8	115,0	265	16
27005	10G1,5	4,5x33,5	144,0	332	16
27006	12G1,5	4,5x38,9	173,0	421	16
27028	16G1,5	4,5x51,5	230,4	555	16

G = with green-yellow earth core
Further dimensions on request.
PVC cables will be changed to lead free PVC successively.

Part No.	No. cores x cross-sec. mm ²	Outer ∅ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
27007	4G2,5	5,5x17,0	96,0	205	14
27008	5G2,5	5,5x21,5	120,0	256	14
27009	7G2,5	5,5x30,3	168,0	344	14
27010	8G2,5	5,5x31,9	192,0	389	14
27011	12G2,5	5,8x47,1	288,0	580	14
27029	16G2,5	5,8x55,1	384,0	674	14
27012	24G2,5 (6x4)	15,0x63,0	604,0	950	14
27027	24G2,5	5,8x120,0	604,0	950	14
27013	4G4	7,0x21,8	154,0	344	12
27014	5G4	7,0x27,4	192,0	428	12
27015	7G4	7,9x36,6	269,0	590	12
27016	4G6	8,2x24,8	230,0	424	10
27017	5G6	8,2x31,8	288,0	530	10
27018	7G6	8,2x42,6	403,0	760	10
27019	4G10	10,0x29,6	384,0	710	8
27020	4G16	11,2x34,4	614,0	1014	6
27021	4G25	13,7x42,6	960,0	1365	4
27022	4G35	15,4x47,6	1344,0	2100	2
27023	4G50	18,2x57,0	1920,0	2940	1
27024	4G70	20,0x64,2	2688,0	4090	2/0
27025	5G16	13,0x46,6	768,0	1370	6
27026	5G25	15,5x55,5	1200,0	2000	4

*) Note
AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.