



## Technical data

- Special PVC single core with increased heat-resistance up to 90°C according to DIN VDE 0281 part 7 and HD 21.7 S2
- **Temperature range**  
flexing +5°C to +90°C  
fixed installation -10°C to +105°C
- **Nominal voltage** U<sub>0</sub>/U 450/750 V
- **Test voltage** 2000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Minimum bending radius**  
flexing approx. 10-15x core Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Plain copper conductors to DIN VDE 0295, cl. 5, IEC 60228 cl. 5, BS 6360 cl. 5 and HD 383
- Special heat-resistant core insulation TI3 to DIN VDE 0281 part 7
- Cores colour coded or on request numbered according to DIN VDE 0293

## Properties

- Heat-resistant special PVC compound of selected stabilizer and plasticizer
- All requirements and test methods conform DIN VDE 0281 part 7
- Not to be used in contact with objects higher than 85°C
- Only suitable for fixed protected installation in, or on, lighting or controlgear for voltages up to 1000 V a.c. or, up to 750 V d.c. to earth
- 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)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

Therm insulated wires are ideal for use in power current installation, switch cabinets, motors and transformers which are subject to direct contact with high temperatures (e.g. varnishing machines and drying towers etc.). These are also suitable for inside wiring of electrical equipments such as lighting and heating apparatus.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

| Cross-sec. mm <sup>2</sup> | Core Ø ca. mm | Cop. weight kg / km | Weight ca. kg / km | black | gn-ye | blue  | brown | red   | white | grey  | vio   | dk-bu |
|----------------------------|---------------|---------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Part No. 1,5               | 3,4           | 14,4                | 20,0               | 29970 | 29971 | 29972 | 29973 | 29974 | 29975 | 29976 | 29977 | 29978 |
| Part No. 2,5               | 4,1           | 24,0                | 33,3               | 29979 | 29980 | 29981 | 29982 | 29983 | 29984 | 29985 | 29986 | 29987 |
| Part No. 4                 | 4,8           | 38,0                | 48,3               | 29988 | 29989 | 29990 | 29991 | 29992 | 29993 | 29994 | 29995 | 29996 |
| Part No. 6                 | 5,3           | 58,0                | 68,5               | 29997 | 29998 | 29999 | 30000 | 30001 | 30002 | 30003 | 30004 | 30005 |
| Part No. 10                | 6,8           | 96,0                | 115,0              | 30006 | 30007 | 30008 | 30009 | 30010 | 30011 | 30012 | 30013 | 30014 |
| Part No. 16                | 8,1           | 154,0               | 170,0              | 30015 | 30016 | 30017 | 30018 | 30019 | 30020 | 30021 | 30022 | 30023 |
| Part No. 25                | 10,2          | 240,0               | 270,0              | 30024 | 30025 | 30026 | 30027 | 30028 | 30029 | 30030 | 30031 | 30032 |
| Part No. 35                | 11,7          | 336,0               | 367,0              | 30033 | 30034 | 30035 | 30036 | 30037 | 30038 | 30039 | 30040 | 30041 |
| Part No. 50                | 13,9          | 480,0               | 520,0              | 30042 | 30043 | 30044 | 30045 | 30046 | 30047 | 30048 | 30049 | 30050 |
| Part No. 70                | 16,0          | 672,0               | 729,0              | 30051 | 30052 | 30053 | 30054 | 30055 | 30056 | 30057 | 30058 | 30059 |
| Part No. 95                | 18,2          | 912,0               | 962,0              | 30060 | 30061 | 30062 | 30063 | 30064 | 30065 | 30066 | 30067 | 30068 |
| Part No. 120               | 20,2          | 1115,0              | 1235,0             | 30069 | 30070 | 30071 | 30072 | 30073 | 30074 | 30075 | 30076 | 30077 |
| Part No. 150               | 22,5          | 1440,0              | 1523,0             | 30078 | 30079 | 30080 | 30081 | 30082 | 30083 | 30084 | 30085 | 30086 |
| Part No. 185               | 24,9          | 1776,0              | 1850,0             | 30087 | 30088 | 30089 | 30090 | 30091 | 30092 | 30093 | 30094 | 30095 |
| Part No. 240               | 28,4          | 2304,0              | 2430,0             | 30096 | 30097 | 30098 | 30099 | 30100 | 30101 | 30102 | 30103 | 30104 |

Dimensions and specifications may be changed without prior notice.

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