

JZ-HF-CY high flexible, screened control cable for drag chains, oil resistant, EMC-preferred type, meter marking



Technical data

- Special PVC control cable, extreme flexibility due to special construction
- Requirements adapted to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -10°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, extra fine wire conductors, to DIN VDE 0295 cl.6 col. 4, BS 6360 cl.6 and IEC 60228 cl.6
- Core insulation of special PVC Z 7225
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal selected lay-length
- Core wrapping with fleece PVC-inner sheath
- construction with Cu-screening, tinned, approx. 85%
- Minimum coverage 85%
- Outer sheath of special PVC compound type TM5 to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1
- Colour grey (RAL 7001)
- with meter marking

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

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)
- oil resistant to DIN VDE 0473-811-404 / DIN EN 60811-404

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- Please note the cleanroom qualification when ordering.
- unscreened analogue type:
JZ-HF
• with UL-approval
JZ-HF-FCY

Application

JZ-HF cables are ideal for use in the machine tool industry, in robotics and machine production and anywhere where high flexibility is essential. These cables have shown excellent performance in combination with standard cable trays. These cables are suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application. For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems. Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. | Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|------------------------|---------|----------|--|--------------------|---------------------|------------------------|---------|
| 15930 | 2 x 0,5 | 7,2 | 30,0 | 90,0 | 20 | 15945 | 2 x 0,75 | 7,6 | 39,0 | 105,0 | 19 |
| 15931 | 3 G 0,5 | 7,5 | 38,0 | 115,0 | 20 | 15946 | 3 G 0,75 | 8,1 | 49,0 | 128,0 | 19 |
| 15932 | 4 G 0,5 | 8,1 | 48,0 | 140,0 | 20 | 15947 | 4 G 0,75 | 8,6 | 60,0 | 184,0 | 19 |
| 15933 | 5 G 0,5 | 8,6 | 64,0 | 168,0 | 20 | 15948 | 5 G 0,75 | 9,4 | 70,0 | 200,0 | 19 |
| 15934 | 7 G 0,5 | 9,9 | 70,0 | 217,0 | 20 | 15949 | 7 G 0,75 | 10,5 | 95,0 | 269,0 | 19 |
| 15935 | 12 G 0,5 | 11,6 | 100,0 | 274,0 | 20 | 15885 | 10 G 0,75 | 12,6 | 110,0 | 327,0 | 19 |
| 15876 | 14 G 0,5 | 12,2 | 135,0 | 332,0 | 20 | 15950 | 12 G 0,75 | 12,9 | 140,0 | 366,0 | 19 |
| 15877 | 16 G 0,5 | 13,0 | 145,0 | 388,0 | 20 | 15886 | 14 G 0,75 | 13,4 | 163,0 | 426,0 | 19 |
| 15936 | 18 G 0,5 | 13,8 | 154,0 | 445,0 | 20 | 15887 | 16 G 0,75 | 14,2 | 187,0 | 487,0 | 19 |
| 15937 | 20 G 0,5 | 14,3 | 160,0 | 497,0 | 20 | 15951 | 18 G 0,75 | 14,8 | 211,0 | 547,0 | 19 |
| 15878 | 21 G 0,5 | 14,8 | 175,0 | 500,0 | 20 | 15888 | 20 G 0,75 | 15,5 | 216,0 | 551,0 | 19 |
| 15938 | 25 G 0,5 | 16,1 | 240,0 | 505,0 | 20 | 15889 | 21 G 0,75 | 16,2 | 272,0 | 590,0 | 19 |
| 15879 | 30 G 0,5 | 16,6 | 280,0 | 515,0 | 20 | 15952 | 25 G 0,75 | 17,7 | 322,0 | 600,0 | 19 |
| 15880 | 34 G 0,5 | 17,7 | 290,0 | 530,0 | 20 | 15890 | 30 G 0,75 | 18,2 | 414,0 | 650,0 | 19 |
| 15881 | 36 G 0,5 | 17,7 | 300,0 | 572,0 | 20 | 15891 | 34 G 0,75 | 19,8 | 473,0 | 685,0 | 19 |
| 15882 | 42 G 0,5 | 19,2 | 330,0 | 605,0 | 20 | 15892 | 36 G 0,75 | 19,8 | 500,0 | 720,0 | 19 |
| 15883 | 50 G 0,5 | 21,2 | 393,0 | 742,0 | 20 | 15893 | 42 G 0,75 | 21,0 | 583,0 | 800,0 | 19 |
| | | | | | | 15894 | 50 G 0,75 | 23,1 | 695,0 | 954,0 | 19 |

Continuation ▢

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| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|------------------------|---------|
| 15961 | 2 x 1 | 8,1 | 50,0 | 115,0 | 18 |
| 15962 | 3 G 1 | 8,4 | 60,0 | 142,0 | 18 |
| 15963 | 4 G 1 | 9,0 | 73,0 | 196,0 | 18 |
| 15964 | 5 G 1 | 9,8 | 81,0 | 271,0 | 18 |
| 15965 | 7 G 1 | 11,2 | 114,0 | 307,0 | 18 |
| 15966 | 12 G 1 | 13,4 | 186,0 | 474,0 | 18 |
| 15967 | 18 G 1 | 15,7 | 254,0 | 622,0 | 18 |
| 15968 | 25 G 1 | 19,0 | 365,0 | 828,0 | 18 |
| 15969 | 34 G 1 | 21,0 | 500,0 | 1049,0 | 18 |
| 15970 | 41 G 1 | 22,7 | 576,0 | 1257,0 | 18 |
| 15971 | 50 G 1 | 24,5 | 681,0 | 1437,0 | 18 |
| 15972 | 65 G 1 | 27,7 | 932,0 | 1823,0 | 18 |
| 15976 | 2 x 1,5 | 8,6 | 64,0 | 170,0 | 16 |
| 15977 | 3 G 1,5 | 9,0 | 84,0 | 203,0 | 16 |
| 15978 | 4 G 1,5 | 9,8 | 99,0 | 243,0 | 16 |
| 15979 | 5 G 1,5 | 10,5 | 120,0 | 288,0 | 16 |
| 15980 | 7 G 1,5 | 12,5 | 148,0 | 403,0 | 16 |
| 15981 | 12 G 1,5 | 14,8 | 274,0 | 592,0 | 16 |
| 15982 | 18 G 1,5 | 17,3 | 386,0 | 844,0 | 16 |
| 15983 | 25 G 1,5 | 21,0 | 584,0 | 1155,0 | 16 |
| 15152 | 41 G 1,5 | 24,8 | 867,0 | 1227,0 | 16 |
| 15153 | 50 G 1,5 | 27,3 | 970,0 | 1445,0 | 16 |
| 15154 | 61 G 1,5 | 29,8 | 1028,0 | 1724,0 | 16 |

| Part no. | No. cores x cross-sec. mm ² | Outer Ø approx. mm | Cop. weight kg / km | Weight approx. kg / km | AWG-No. |
|----------|--|--------------------|---------------------|------------------------|---------|
| 15925 | 3 G 2,5 | 10,8 | 140,0 | 215,0 | 14 |
| 15926 | 4 G 2,5 | 11,5 | 159,0 | 264,0 | 14 |
| 15927 | 5 G 2,5 | 12,9 | 194,0 | 344,0 | 14 |
| 15928 | 7 G 2,5 | 15,1 | 234,0 | 410,0 | 14 |
| 15929 | 12 G 2,5 | 18,4 | 390,0 | 721,0 | 14 |
| 15155 | 3 G 4 | 13,0 | 178,0 | 292,0 | 12 |
| 15156 | 4 G 4 | 14,2 | 222,0 | 372,0 | 12 |
| 15157 | 5 G 4 | 15,6 | 328,0 | 448,0 | 12 |
| 15158 | 4 G 6 | 16,0 | 305,0 | 526,0 | 10 |
| 15159 | 5 G 6 | 17,5 | 441,0 | 632,0 | 10 |
| 15160 | 4 G 10 | 21,2 | 485,0 | 838,0 | 8 |
| 15161 | 5 G 10 | 23,2 | 610,0 | 998,0 | 8 |
| 15162 | 4 G 16 | 24,1 | 840,0 | 1225,0 | 6 |
| 15163 | 5 G 16 | 27,0 | 1050,0 | 1560,0 | 6 |

Dimensions and specifications may be changed without prior notice. (RC01)

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