# PURö-JZ / PURö-OZ

**enhanced oil resistance**


## TECHNICAL DATA

**PUR control and connection cable in alignment with DIN VDE 0285-525-1 / DIN EN 50525-1**

| | |
|---|---|
| **Temperature range** | flexible -20°C to +80°C<br>fixed -40°C to +80°C |
| **Nominal voltage** | AC $U_o$/U 300/500 V |
| **Test voltage core/core** | 4000 V |
| **Breakdown voltage** | 8000 V |
| **Minimum bending radius** | flexible 7.5x Outer-Ø<br>fixed 4x Outer-Ø |

## CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: oil-resistant PVC in alignment with DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type TI2), with improved gliding behaviour
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Outer sheath: Special grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: grey (RAL 7001)
- Length marking: in metres

## PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant, low adhesion
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## TESTS

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

## APPLICATION

Connection and control cable with a high-grade oil-resistant PVC core insulation. Due to its resistance to mineral oils, notably against coolant emulsions, it is suited for use in particularly critical locations in machine, tool and plant construction, rolling mills and steelworks. Suitable for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors.

## NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

| Part no. | No. cores x cross-sec. mm² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|---|---|---|---|---|---|
| 22100 | 2 x 0.5 | 20 | 4.8 | 9.6 | 45.0 |
| 22101 | 3 G 0.5 | 20 | 5.1 | 14.4 | 55.0 |
| 22102 | 4 G 0.5 | 20 | 5.5 | 19.0 | 65.0 |
| 22103 | 5 G 0.5 | 20 | 6.2 | 24.0 | 75.0 |
| 22104 | 7 G 0.5 | 20 | 6.7 | 33.6 | 90.0 |
| 22105 | 8 G 0.5 | 20 | 7.4 | 38.0 | 105.0 |
| 22106 | 10 G 0.5 | 20 | 8.3 | 48.0 | 120.0 |
| 22107 | 12 G 0.5 | 20 | 8.7 | 58.0 | 135.0 |
| 22108 | 14 G 0.5 | 20 | 9.5 | 67.0 | 170.0 |
| 22109 | 18 G 0.5 | 20 | 10.7 | 86.0 | 205.0 |
| 22110 | 21 G 0.5 | 20 | 11.3 | 96.0 | 225.0 |
| 22111 | 25 G 0.5 | 20 | 12.6 | 120.0 | 270.0 |
| 22112 | 30 G 0.5 | 20 | 13.5 | 144.0 | 315.0 |
| 22113 | 34 G 0.5 | 20 | 14.3 | 163.0 | 380.0 |
| 22114 | 42 G 0.5 | 20 | 15.8 | 202.0 | 415.0 |
| 22115 | 50 G 0.5 | 20 | 17.5 | 240.0 | 550.0 |
| 22116 | 2 x 0.75 | 19 | 5.3 | 14.4 | 44.0 |
| 22117 | 3 G 0.75 | 19 | 5.6 | 21.6 | 53.0 |
| 22118 | 4 G 0.75 | 19 | 6.3 | 29.0 | 64.0 |
| 22119 | 5 G 0.75 | 19 | 6.9 | 36.0 | 76.0 |
| 22120 | 7 G 0.75 | 19 | 7.5 | 50.0 | 96.0 |

| Part no. | No. cores x cross-sec. mm² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|---|---|---|---|---|---|
| 22121 | 8 G 0.75 | 19 | 8.3 | 58.0 | 111.0 |
| 22122 | 10 G 0.75 | 19 | 9.2 | 72.0 | 140.0 |
| 22123 | 12 G 0.75 | 19 | 9.8 | 86.0 | 170.0 |
| 22124 | 14 G 0.75 | 19 | 10.6 | 101.0 | 202.0 |
| 22125 | 18 G 0.75 | 19 | 12.2 | 130.0 | 260.0 |
| 22126 | 21 G 0.75 | 19 | 12.7 | 151.0 | 269.0 |
| 22127 | 25 G 0.75 | 19 | 14.3 | 180.0 | 282.0 |
| 22128 | 30 G 0.75 | 19 | 15.3 | 216.0 | 400.0 |
| 22129 | 34 G 0.75 | 19 | 16.5 | 245.0 | 475.0 |
| 22130 | 42 G 0.75 | 19 | 18.1 | 302.0 | 600.0 |
| 22131 | 50 G 0.75 | 19 | 19.8 | 360.0 | 720.0 |
| 22132 | 2 x 1 | 18 | 5.6 | 19.0 | 53.0 |
| 22133 | 3 G 1 | 18 | 5.9 | 29.0 | 63.0 |
| 22134 | 4 G 1 | 18 | 6.6 | 38.0 | 75.0 |
| 22135 | 5 G 1 | 18 | 7.3 | 48.0 | 89.0 |
| 22136 | 7 G 1 | 18 | 8.1 | 67.0 | 115.0 |
| 22137 | 8 G 1 | 18 | 8.8 | 77.0 | 131.0 |
| 22138 | 10 G 1 | 18 | 9.8 | 96.0 | 166.0 |
| 22139 | 12 G 1 | 18 | 10.4 | 115.0 | 201.0 |
| 22140 | 14 G 1 | 18 | 11.4 | 134.0 | 230.0 |
| 22141 | 18 G 1 | 18 | 12.9 | 173.0 | 289.0 |

**Continued on next page**

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## enhanced oil resistance

| Part no. | No. cores x cross-sec. mm² | AWG, approx. | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|---|---|---|---|---|---|
| 22142 | 21 G 1 | 18 | 13.8 | 196.0 | 306.0 |
| 22143 | 25 G 1 | 18 | 15.4 | 240.0 | 380.0 |
| 22144 | 32 G 1 | 18 | 17.1 | 308.0 | 620.0 |
| 22145 | 34 G 1 | 18 | 17.7 | 326.0 | 645.0 |
| 22146 | 42 G 1 | 18 | 19.5 | 403.0 | 730.0 |
| 22147 | 50 G 1 | 18 | 21.3 | 480.0 | 890.0 |
| 22148 | 2 x 1.5 | 16 | 6.4 | 29.0 | 68.0 |
| 22149 | 3 G 1.5 | 16 | 6.8 | 43.0 | 87.0 |
| 22150 | 4 G 1.5 | 16 | 7.4 | 58.0 | 106.0 |
| 22151 | 5 G 1.5 | 16 | 8.3 | 72.0 | 131.0 |
| 22152 | 7 G 1.5 | 16 | 9.2 | 101.0 | 173.0 |
| 22153 | 8 G 1.5 | 16 | 10.0 | 115.0 | 199.0 |
| 22154 | 10 G 1.5 | 16 | 10.9 | 144.0 | 245.0 |
| 22155 | 12 G 1.5 | 16 | 11.8 | 173.0 | 293.0 |
| 22156 | 14 G 1.5 | 16 | 13.0 | 202.0 | 347.0 |
| 22157 | 18 G 1.5 | 16 | 14.6 | 259.0 | 454.0 |
| 22158 | 21 G 1.5 | 16 | 15.6 | 302.0 | 534.0 |
| 22159 | 25 G 1.5 | 16 | 17.4 | 360.0 | 641.0 |
| 22160 | 30 G 1.5 | 16 | 18.6 | 410.0 | 800.0 |
| 22161 | 34 G 1.5 | 16 | 20.0 | 490.0 | 945.0 |
| 22162 | 42 G 1.5 | 16 | 21.8 | 605.0 | 1100.0 |
| 22163 | 50 G 1.5 | 16 | 24.2 | 720.0 | 1250.0 |
| 22164 | 2 x 2.5 | 14 | 7.8 | 48.0 | 110.0 |
| 22165 | 3 G 2.5 | 14 | 8.3 | 72.0 | 146.0 |
| 22166 | 4 G 2.5 | 14 | 9.2 | 96.0 | 183.0 |
| 22167 | 5 G 2.5 | 14 | 10.1 | 120.0 | 222.0 |
| 22168 | 7 G 2.5 | 14 | 11.2 | 168.0 | 293.0 |
| 22169 | 12 G 2.5 | 14 | 14.8 | 288.0 | 512.0 |
| 22170 | 18 G 2.5 | 14 | 18.2 | 432.0 | 740.0 |
| 22171 | 25 G 2.5 | 14 | 21.6 | 600.0 | 940.0 |
| 22172 | 2 x 4 | 12 | 9.2 | 77.0 | 147.0 |
| 22173 | 3 G 4 | 12 | 9.8 | 115.0 | 228.0 |
| 22174 | 4 G 4 | 12 | 10.9 | 154.0 | 291.0 |
| 22175 | 5 G 4 | 12 | 12.1 | 192.0 | 355.0 |
| 22176 | 7 G 4 | 12 | 13.2 | 269.0 | 503.0 |
| 22177 | 3 G 6 | 10 | 11.9 | 173.0 | 362.0 |
| 22178 | 4 G 6 | 10 | 13.0 | 230.0 | 468.0 |
| 22179 | 5 G 6 | 10 | 14.5 | 288.0 | 570.0 |
| 22180 | 7 G 6 | 10 | 16.2 | 403.0 | 808.0 |
| 22181 | 3 G 10 | 8 | 14.9 | 288.0 | 555.0 |
| 22182 | 4 G 10 | 8 | 16.5 | 384.0 | 720.0 |
| 22183 | 5 G 10 | 8 | 18.3 | 480.0 | 894.0 |
| 22184 | 7 G 10 | 8 | 20.2 | 672.0 | 1295.0 |
| 22185 | 4 G 16 | 6 | 20.1 | 614.0 | 1063.0 |
| 22186 | 5 G 16 | 6 | 22.6 | 768.0 | 1400.0 |
| 22187 | 7 G 16 | 6 | 24.8 | 1075.0 | 1800.0 |
| 22188 | 4 G 25 | 4 | 25.0 | 960.0 | 1590.0 |
| 22189 | 4 G 35 | 2 | 28.7 | 1344.0 | 2200.0 |
| 22190 | 4 G 50 | 1 | 34.1 | 1920.0 | 2400.0 |
| 22191 | 4 G 70 | 2/0 | 40.2 | 2688.0 | 4400.0 |
| 22192 | 4 G 95 | 3/0 | 46.0 | 3648.0 | 6000.0 |