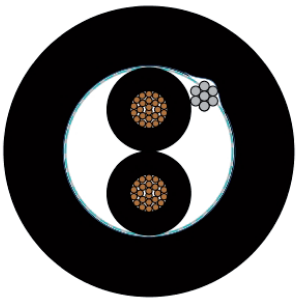
# POWER 1000-YFR-OS

**XLPE core insulation / 90°C, flame-retardant / cat. B, direct burial**



## TECHNICAL DATA

**Power and control cable acc. to IEC 60502-1**

| | |
|---|---|
| **Temperature range** | fixed –30°C to +90°C |
| **Nominal voltage** | $U_0$/U 600/1000 V |
| **Test voltage** | 3500 V |
| **Minimum bending radius** | fixed 10x Outer-Ø<br>flexible 15x Outer-Ø |

## CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to IEC 60228 Class 5
- Core insulation: XLPE
- Core identification: 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
- Cores stranded in layers with optimal lay lengths
- Separator: PET foil
- Overall screen: AL/PE tape over tinned copper stranded drain wire (7x0,3 mm)
- Outer sheath: PVC
- Sheath colour: black (RAL 9005)

## PROPERTIES

- resistant to: UV radiation, weathering effects
- direct burial
- for indoor and outdoor use

## BADANIA

- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- bundle fire test acc. to DIN VDE 0482-332-3-23 / DIN EN 60332-3-23 / IEC 60332-3-23: Cat. B
- oil-resistant acc. to IEC 60811
- UV-resistant acc. to DIN EN ISO 4892-2 / ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2 / ISO 4892-2

## APPLICATION

Used as a power and control cable for indoor and outdoor installations requiring UV resistance. The cable can be laid, among others: in cable ducts or directly in the ground. Direct laying in the ground may take place provided that the installation complies with accepted good installation practices - the cable should be laid on a special cable ballast ensuring stable and continuous drainage of standing water from the installation site. A cable buried in the ground cannot be exposed to permanent exposure to water.

| Part no. | No. cores x cross-sec. mm² | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|---|---|---|---|---|
| 18191162 | 2 x 0,75 | 8,9 | 17,1 | 109 |
| 18191163 | 3 G 0,75 | 9,3 | 23,4 | 120 |
| 18191164 | 3 x 0,75 | 9,3 | 23,4 | 120 |
| 18191165 | 4 G 0,75 | 9,9 | 29,7 | 137 |
| 18191166 | 4 x 0,75 | 9,9 | 29,7 | 137 |
| 18191167 | 5 G 0,75 | 10,7 | 36,1 | 155 |
| 18191168 | 5 x 0,75 | 10,7 | 36,1 | 155 |
| 18191169 | 7 G 0,75 | 11,4 | 48,7 | 181 |
| 18191170 | 12 G 0,75 | 14,4 | 80,3 | 269 |
| 18191171 | 18 G 0,75 | 16,5 | 118,3 | 360 |
| 18191172 | 25 G 0,75 | 19,0 | 162,7 | 457 |
| 18191173 | 2 x 1 | 9,1 | 20,9 | 117 |
| 18191174 | 3 G 1 | 9,5 | 29,1 | 130 |
| 18191175 | 3 x 1 | 9,5 | 29,1 | 130 |
| 18191176 | 4 G 1 | 10,2 | 37,3 | 149 |
| 18191177 | 4 x 1 | 10,2 | 37,3 | 149 |
| 18191178 | 5 G 1 | 10,9 | 45,6 | 170 |
| 18191179 | 5 x 1 | 10,9 | 45,6 | 170 |
| 18191180 | 7 G 1 | 11,7 | 62,0 | 201 |
| 18191181 | 12 G 1 | 14,8 | 103,1 | 298 |
| 18191182 | 18 G 1 | 17,0 | 152,6 | 407 |
| 18191183 | 25 G 1 | 19,6 | 210,3 | 516 |

| Part no. | No. cores x cross-sec. mm² | Outer Ø mm, approx. | Cu-weight kg/km | Weight kg/km, approx. |
|---|---|---|---|---|
| 18191184 | 2 x 1,5 | 9,6 | 28,6 | 135 |
| 18191185 | 3 G 1,5 | 10,1 | 40,7 | 152 |
| 18191186 | 4 G 1,5 | 10,8 | 52,7 | 173 |
| 18191187 | 5 G 1,5 | 11,7 | 65,3 | 203 |
| 18191188 | 7 G 1,5 | 12,5 | 88,9 | 244 |
| 18191189 | 12 G 1,5 | 15,9 | 149,4 | 368 |
| 18191190 | 18 G 1,5 | 18,3 | 222,0 | 506 |
| 18191191 | 25 G 1,5 | 21,3 | 306,8 | 652 |
| 18191192 | 2 x 2,5 | 10,5 | 44,6 | 166 |
| 18191193 | 3 G 2,5 | 11,0 | 64,8 | 192 |
| 18191194 | 4 G 2,5 | 11,9 | 84,8 | 226 |
| 18191195 | 5 G 2,5 | 12,8 | 105,0 | 264 |
| 18191196 | 7 G 2,5 | 13,8 | 145,2 | 324 |
| 18191197 | 12 G 2,5 | 17,7 | 246,0 | 496 |
| 18191198 | 18 G 2,5 | 20,5 | 367,0 | 704 |
| 18191199 | 25 G 2,5 | 24,2 | 508,4 | 932 |