

GAMAFLEX-JZ CY BLACK 0,6/1 kV COLD

Flexible control cables for installation at low temperatures



Application

The cables are used in control and power chains in tool machinery, conveyor and transportation belts, production lines and control automation equipment for rated voltage 0,6/1kV.

The cables are suitable for installation at low temperatures, for fixed installation as well as occasional flexing at free, non- continuously recurring movement without tensile load. Interference-free transmission of signal and pulses is assured by the high degree of Cu-screening.

The cables use in dry, moist and wet environments in normal mechanical stresses as well as outside considering the temperature range. The black, special PVC other sheath is UV resistant. They are not suitable for direct burial.

Technical data

- according to the technical specification of Gamakabel, adapted to HD 21.13
- nominal voltage $U_0/U = 0,6/1$ kV
- test voltage 4000 V
- conductor temperature - max. +70°C
- permissible conductor temperature at short circuit for 5s max. +160°C
- insulation resistance at 70 °C : min 20 $G\Omega \times cm$
- temperature range:
 - occasional flexing: - 25 °C** to +70 °C;
 - fixed installation : -45 °C** to +70 °C

bending test, impact resistance test at low temperatures, elongation test at low temperatures: -40 °C

- minimum temperature during installation: - 15 °C
- minimum bending radius:
 - occasional flexing - 15 D;
 - fixed installation - 4 D (D - outer cable diameter)

diameter)

- flame test - flame retardant according IEC 332-1
- black, UV resistant

Cable design

- copper conductors class 5 according IEC 60 228
- insulation - PVC compound type TI4 according HD 21.1
- core identification - all cores black with imprinted numbers according EN 50334 and yellow/green core according EN 27 S1(IEC 60173)
- cores stranded in layers
- plastic foil wrap
- Cu-screen – braiding of tinner copper wire
- outer sheath - PVC compound type TM4 according HD 21.1
- outer sheath colour – black

Number of Conductors and Cross Section	Outer Diameter	Copper Weight	Cable Weight
No x mm ²	mm	kg/km	kg/km
6 x 6,0	18,9	451	630
6 x 10,0	22,1	702	928