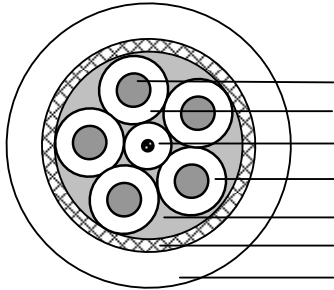


TECHNICAL DATA SHEETEPN **SYSC05****CONTROLFLEX SY LEADFREE**
5*1.00 mm² blk.version **4**
date **2006-02-03**
page **1 / 2****APPLICATION**

Triple protected highly flexible PVC insulated and sheathed power cable for exceptional mechanical and electrical protection, generally in accordance with VDE0250

CONSTRUCTION

- 1 Conductor
- 2 Insulation
- 3 Filler
- 4 Stranding
- 5 Bedding
- 6 Armour
- 7 Jacket

1. Conductor

Material
Dimensions

Stranded bare copper
32x0.20 mm (1.00 mm²)

2. Insulation

Material
Diameter

PVC
2.52 ± 0.05 mm

3. Filler

Material
Diameter

PVC
2.00 mm

4. Stranding

Lay up
Colours

5 cores stranded
Yellow/Green, Blue, Brown, Black and Grey

5. Bedding

Material
Diameter
Nominal wall

PVC
7.94 ± 0.20 mm
0.45 mm

6. Armour

Material
Diameter
Coverage

Galvanized steel wire
9.02 mm
64 %

7. Jacket

Material
Diameter
Nominal wall

PVC
11.02 ± 0.30 mm
1.00 mm

TECHNICAL DATA SHEET

CONTROLFLEX SY LEADFREE
5*1.00 mm² blk.

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REQUIREMENTS AND TEST METHODS

Electrical:

Voltage rating conductor to earth	300 V RMS
Voltage rating conductor to conductor	500 V RMS
Maximum resistance conductor @ 20°C	19.5 Ω/km
Maximum continuous current per conductor @ 25°C	0.8 x 10 A

Mechanical and physical:

Temperature range processing	-5 to +70 °C
Temperature range operating (moving installation)	-5 to +70 °C
Temperature range operating (fixed installation)	-30 to +70 °C
Temperature range storage	-30 to +70 °C
Nominal weight per 100m	18.5 kg
Maximum pulling tension	350 N
Minimum bending radius	10 x D

