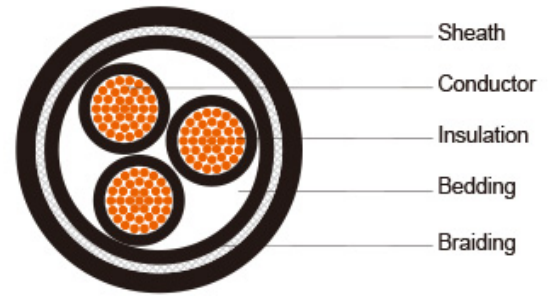


**VDE Standard Control Cable SY PVC /PVC/GSWB/PVC Control Cable**



**Application:**

For use as a measuring, control and signal cable for the machine tool industry, plant construction, heating and air conditioning, and as a flexible cable between fixed and mobile equipment.  
The cable is well protected against mechanical damage by the narrow weave steel-wire braid.

**• Note:**

should not be used in any installations where the cable is subjected to repetitive flexing.

**Standards:**

Generally to BS6500 and VDE0250

**Conductor:**

Flexible class 5 copper conductors to BS6360 / VDE0295

**Insulation:**

PVC

**Bedding:**

PVC

**Braiding:**

Galvanized Steel Wire Braid (GSWB)

**Sheath:**

PVC (Type TM2 to BS7655)

**Voltage Rating:**

300/500V

**Temperature rating:**

Flexing -15 to +70°C  
Static -35 to +70°C

**Minimum bending radius:**

6 x overall diameter

**Core identification:**

Black with White numbers. (3 core and above to include Green/Yellow) Coloured cores available on request

**Current Carrying Capacity (amperes)**

Nominal Cross Sectional Area	Single Phase AC or DC	Three Phase AC
mm <sup>2</sup>	Amps	Amps
0.5	3	3
0.8	6	6
1.0	10	10
1.5	16	16
2.5	25	20
4.0	32	25

6.0	51	43
10.0	70	60
16.0	94	80

The above ratings are based on cable in Free air, in an ambient air temperature of 30°C.

For ambient air temperatures other than 30°C the following rating factors should be applied:

Ratings for cables up to and including 4mm<sup>2</sup> are based on 60°C conductor operating temperature with 6mm<sup>2</sup> and above based on 70°C operating temperature.

**Correction Factors**

Cables Up To and Including 4mm<sup>2</sup> . Assuming 60°C Conductor Temperature

<b>Ambient Temperature</b>	35°C	40°C	45°C	50°C	55°C
<b>Correction Factor</b>	0.91	0.82	0.71	0.58	0.41

Cables 6mm<sup>2</sup> and above, Assuming 70°C Conductor Temperature

<b>Ambient Temperature</b>	35°C	40°C	45°C	50°C	55°C	60°C
<b>Correction Factor</b>	0.91	0.82	0.71	0.58	0.41	0.50

**3 core SY control cable**

Part NO.	Number of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE-CT-SY-3C1.00SQ	3	1.0	32/0.20	9.0	142
UE-CT-SY-3C1.50SQ	3	1.5	30/0.25	10.2	186
UE-CT-SY-3C2.50SQ	3	2.5	50/0.25	11.9	246
UE-CT-SY-3C4.00SQ	3	4.0	56/0.30	15.1	330
UE-CT-SY-3C6.00SQ	3	6.0	84/0.30	16.2	407
UE-CT-SY-3C10.0SQ	3	10.0	80/0.40	20.1	621
UE-CT-SY-3C16.0SQ	3	16.0	126/0.40	23.8	857

**4 core SY control cable**

Part NO.	Number of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE-CT-SY-4C1.00SQ	4	1.0	32/0.20	9.8	165

UE-CT-SY-4C1.50SQ	4	1.5	30/0.25	10.9	212
UE-CT-SY-4C2.50SQ	4	2.5	50/0.25	13.4	315
UE-CT-SY-4C4.00SQ	4	4.0	56/0.30	16.4	457
UE-CT-SY-4C6.00SQ	4	6.0	84/0.30	19.5	687
UE-CT-SY-4C10.0SQ	4	10.0	80/0.40	24.2	1009
UE-CT-SY-4C16.0SQ	4	16.0	126/0.40	27.1	1384

**5 core SY control cable**

Part NO.	Number of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE-CT-SY-5C1.00SQ	5	1.0	32/0.20	10.5	197
UE-CT-SY-5C1.50SQ	5	1.5	30/0.25	11.7	241
UE-CT-SY-5C2.50SQ	5	2.5	50/0.25	14.5	365
UE-CT-SY-5C4.00SQ	5	4.0	56/0.30	17.7	545
UE-CT-SY-5C6.00SQ	5	6.0	84/0.30	21.1	798
UE-CT-SY-5C10.0SQ	5	10.0	80/0.40	26.2	1197
UE-CT-SY-5C16.0SQ	5	16.0	126/0.40	30.6	1740

**7 core SY control cable**

Part NO.	Number of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	No. and Nominal Diameter of Strands #/mm	Nominal Overall Diameter mm	Nominal Weight kg/km
UE-CT-SY-7C1.00SQ	7	1.0	32/0.20	11.2	231
UE-CT-SY-7C1.50SQ	7	1.5	30/0.25	13.1	310
UE-CT-SY-7C2.50SQ	7	2.5	50/0.25	15.5	458

