

# YY CONTROL CABLE



## Product Description

YY cable meaning flexible multicore PVC control cable used in applications requiring frequent bending and movement, with numerical and color-coded core identification. YY flex cables may be more suited to environments with less mechanical stress, such as portable or flexible equipment.



## Application Range

Plant engineering and construction Industrial machinery Air conditioning installations power station stage technique.  
Fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load.  
Dry or damp interiors under medium mechanical load conditions.

## Benefits

Space saving installation due to small cable diameters.  
High electrical performance due to 4 kV test voltage.

## Design

1. Plain annealed copper Class 5
  2. PVC insulation
- Cores twisted in layers.
3. PVC outer sheath, grey

## Technical Data

<b>Core Identification Code</b>	Black with White Numbers acc. to VDE 0293
<b>Specific Insulation Resistance</b>	> 20 Gohm × cm
<b>Conductor Stranding</b>	Fine wire in Accordance to VDE 0295 class 5 / IEC 60228 class 5
<b>Minimum Bending Radius</b>	Occasional Flexing : 15 × Cable Diameter Fixed Installation : 4 × Cable Diameter
<b>Rated Voltage</b>	U0/U: 300 / 500 V
<b>Test Voltage</b>	4,000 V
<b>Protective Conductor</b>	G = with Protective Conductor Green / Yellow X = without Protective Conductor
<b>Range of Temperature</b>	Occasional Flexing : -5°C up to +70°C Fixed Installation : -20°C up to +80°C
<b>VDE tested</b>	VDE Reg. No. 7030 for Following Sizes: up to 2.5 mm <sup>2</sup> : 2-64 Cores Starting at 4 mm <sup>2</sup> : 2-7 Cores

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## Specification Table

Nominal Cross Sectional Area of Conductor (mm <sup>2</sup> )	Nominal Stranding of Conductor (mm)	Nominal Radial Thickness of insulation (mm)	Nominal Radial Thickness of sheath (mm)	Approximate Overall Diameter Lower Limit (mm)	Approximate Overall Diameter Upper Limit (mm)	Approximate Weight (kg/km)
2x0.75	24/0.2	0.5	0.6	4.8	6.8	49
2x1.0	32/0.2	0.5	0.6	5.2	7.2	58
2x1.5	30/0.25	0.5	0.6	5.8	7.8	72
2x2.5	50/0.25	0.5	0.6	6.6	8.6	99
3x0.5	16/0.2	0.5	0.6	4.7	6.7	48
3x0.75	24/0.2	0.5	0.6	5.2	7.2	59
3x1.0	32/0.2	0.5	0.6	5.6	7.6	70
3x1.5	30/0.25	0.5	0.6	6.2	8.2	89
3x2.5	50/0.25	0.5	0.6	7.0	9.0	125
3x4.0	56/0.3	0.5	0.6	8.3	10.3	185
3x6.0	84/0.3	0.5	0.8	10.3	12.3	256
4x0.5	16/0.2	0.5	0.6	5.2	7.2	58
4x0.75	24/0.2	0.5	0.6	5.7	7.7	74
4x1.0	32/0.2	0.5	0.6	6.2	8.2	87
4x1.5	30/0.25	0.5	0.6	6.8	8.8	111
4x2.5	50/0.25	0.5	0.6	7.8	9.8	157
4x4.0	56/0.3	0.5	0.6	9.3	11.3	240
4x6.0	84/0.3	0.5	0.8	11.4	13.4	326
5x0.5	16/0.2	0.5	0.6	5.8	7.8	63
5x0.75	24/0.2	0.5	0.6	6.3	8.3	80
5x1.0	32/0.2	0.5	0.6	6.8	8.8	98
5x1.5	30/0.25	0.5	0.6	7.6	9.6	127
5x2.5	50/0.25	0.5	0.6	8.7	10.7	181
5x4.0	56/0.3	0.5	0.6	10.3	12.3	267
5x6.0	84/0.3	0.5	0.8	12.6	14.6	373