

**Applications**

SIMBAL 'ROUND FLEX 500 CY' Screened PVC/PVC cables are typically used in dry & moist applications for light & medium mechanical stresses. Cables should be protected when used outdoors, & should not be used in water. Cable is suitable for measuring, controlling and regulating according to DIN VDE 0113, also used for computers and control equipment on machine tools, conveyors, production lines and industrial plant, either in fixed installations or with infrequent movement with no periodic recurrence.

**Design**

1. **Conductor** :- Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation** :- PVC type YI 2 (Polyvinyl chloride)
3. **Screen** :- Aluminium coated tape, tinned copper braid
4. **Outer Sheath** :- PVC type YM 2 (Polyvinyl chloride)  
Colour - Grey



**Core Identification**

In accordance with DIN VDE 0293 : 1990-01  
JZ/OZ - Black with white numbers with or without green / yellow earth core

**Standards**

IEC 60298

Mechanical Properties		
Bending Radii	(Dynamic Installations)	20 x Cable diameter
	(Static Installations)	10 x Cable diameter
Chemical Properties		
For Indoor applications only		
Flame retardant in acc. With IEC 60 332 part 1		
Lead & Silicon free		
Electrical & Thermal Properties		
Nominal Voltage	U <sub>0</sub> / U	300 / 500V
Max. operating voltage in AC systems	U <sub>m</sub>	= 500V
Max. operating voltage in DC systems	V <sub>m</sub>	= 750V
Test Voltage	2000 V - 50Hz in AC	
Current Rating	See below	
Max surface temperature		
- fixed installation	- 35 deg C up to + 70 deg C	
- mobile installation	- 15 deg C up to + 70 deg C	
Max conductor temperature		
- In operation	+ 70 deg C	
- In short circuit	+ 150 deg C	

**Cable Specification**

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Outer diameter Approx	Weight Approx
3c x 0.75mm <sup>2</sup>	08051 0075 03CY	PG7 / M20/16	13 Amps	6.3mm	0.065 kg/m
4c x 0.75mm <sup>2</sup>	08051 0075 04CY	PG9 / M20/16	13 Amps	6.8mm	0.077 kg/m
5c x 0.75mm <sup>2</sup>	08051 0075 05CY	PG9 / M20/16	13 Amps	7.3mm	0.091 kg/m
7c x 0.75mm <sup>2</sup>	08051 0075 07CY	PG11 / M20/16	13 Amps	7.8mm	0.115 kg/m
8c x 0.75mm <sup>2</sup>	08051 0075 08CY	PG11 / M20/16	13 Amps	8.3mm	0.137 kg/m
12c x 0.75mm <sup>2</sup>	08051 0075 12CY	PG13.5 / M20S	13 Amps	10.1mm	0.177 kg/m
18c x 0.75mm <sup>2</sup>	08051 0075 19CY	PG16 / M20	13 Amps	11.6mm	0.250 kg/m
25c x 0.75mm <sup>2</sup>	08051 0075 25CY	PG21 / M25	13 Amps	13.9mm	0.326 kg/m
3c x 1.00mm <sup>2</sup>	08051 0100 03CY	PG9 / M20/16	16 Amps	6.5mm	0.073 kg/m
4c x 1.00mm <sup>2</sup>	08051 0100 04CY	PG9 / M20/16	16 Amps	7mm	0.089 kg/m
5c x 1.00mm <sup>2</sup>	08051 0100 05CY	PG11 / M20/16	16 Amps	7.6mm	0.105 kg/m
7c x 1.00mm <sup>2</sup>	08051 0100 07CY	PG11 / M20S	16 Amps	8.4mm	0.139 kg/m
8c x 1.00mm <sup>2</sup>	08051 0100 08CY	PG11 / M20S	16 Amps	9mm	0.157 kg/m
12c x 1.00mm <sup>2</sup>	08051 0100 12CY	PG13.5 / M20S	16 Amps	10.4mm	0.207 kg/m
18c x 1.00mm <sup>2</sup>	08051 0100 19CY	PG16 / M20	16 Amps	12.4mm	0.295 kg/m
25c x 1.00mm <sup>2</sup>	08051 0100 25CY	PG21 / M25	16 Amps	14.9mm	0.384 kg/m
3c x 1.50mm <sup>2</sup>	08051 0150 03CY	PG9 / M20/16	20 Amps	7.2mm	0.090 kg/m
4c x 1.50mm <sup>2</sup>	08051 0150 04CY	PG11 / M20/16	20 Amps	7.8mm	0.108 kg/m
5c x 1.50mm <sup>2</sup>	08051 0150 05CY	PG11 / M20S	20 Amps	8.4mm	0.125 kg/m
7c x 1.50mm <sup>2</sup>	08051 0150 07CY	PG11 / M20S	20 Amps	9.3mm	0.160 kg/m
12c x 1.50mm <sup>2</sup>	08051 0150 12CY	PG13.5 / M20	20 Amps	11.8mm	0.279 kg/m
18c x 1.50mm <sup>2</sup>	08051 0150 19CY	PG21 / M25	20 Amps	14mm	0.350 kg/m
25c x 1.50mm <sup>2</sup>	08051 0150 25CY	PG21 / M25	20 Amps	16.9mm	0.530 kg/m
3c x 2.50mm <sup>2</sup>	08051 0250 03CY	PG11 / M20S	25 Amps	8.6mm	0.140 kg/m
4c x 2.50mm <sup>2</sup>	08051 0250 04CY	PG11 / M20S	25 Amps	9.4mm	0.173 kg/m
5c x 2.50mm <sup>2</sup>	08051 0250 05CY	PG13.5 / M20S	25 Amps	10mm	0.206 kg/m
7c x 2.50mm <sup>2</sup>	08051 0250 07CY	PG13.5 / M20S	25 Amps	10.8mm	0.267 kg/m
12c x 2.50mm <sup>2</sup>	08051 0250 12CY	PG21 / M25	25 Amps	14.6mm	0.432 kg/m
4c x 4mm <sup>2</sup>	08051 0400 04CY	PG13.5 / M20S	36 Amps	11.1mm	0.236 kg/m
4c x 6mm <sup>2</sup>	08051 0600 04CY	PG16 / M20	45 Amps	12.8mm	0.339 kg/m
4c x 10mm <sup>2</sup>	08051 1000 04CY	PG21 / M25	64 Amps	16.1mm	0.502 kg/m
4c x 16mm <sup>2</sup>	08051 1600 04CY	PG29 / M32	87 Amps	19.2mm	0.771 kg/m
4c x 25mm <sup>2</sup>	08051 2500 04CY	PG29 / M32	115 Amps	20.2mm	1.420 kg/m