

Applications

SIMBAL 'ROUND FLEX 500 YY' 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 fixed installations in production lines and industrial plants

Design

1. **Conductor** :- Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation** :- PVC type YI 2 (Polyvinyl chloride)
3. **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

DIN VDE 0245



Mechanical Properties	
Bending Radii	Dynamic -10 x diameter, Static—6 x 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 ₀ / U 300 / 500V
Max. op. voltage (AC systems) U _m = 500V	(DC systems) V _m = 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

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 ²	08051 0075 03	PG7 / M20/16	13 Amps	5.4mm	0.050 kg/m
4c x 0.75mm ²	08051 0075 04	PG7 / M20/16	13 Amps	5.9mm	0.060 kg/m
5c x 0.75mm ²	08051 0075 05	PG9 / M20/16	13 Amps	6.7mm	0.072 kg/m
7c x 0.75mm ²	08051 0075 07	PG9 / M20/16	13 Amps	7.1mm	0.090 kg/m
8c x 0.75mm ²	08051 0075 08	PG9 / M20/16	13 Amps	7.4mm	0.100 kg/m
12c x 0.75mm ²	08051 0075 12	PG11 / M20S	13 Amps	9.4mm	0.146 kg/m
16c x 0.75mm ²	08051 0075 16	PG13.5 / M20S	13 Amps	10.8mm	0.215 kg/m
25c x 0.75mm ²	08051 0075 25	PG16 / M20	13 Amps	13.4mm	0.289 kg/m
3c x 1.00mm ²	08051 0100 03	PG7 / M20/16	16 Amps	5.6mm	0.060 kg/m
4c x 1.00mm ²	08051 0100 04	PG9 / M20/16	16 Amps	6.5mm	0.069 kg/m
5c x 1.00mm ²	08051 0100 05	PG9 / M20/16	16 Amps	6.7mm	0.083 kg/m
7c x 1.00mm ²	08051 0100 07	PG9 / M20/16	16 Amps	7.5mm	0.104 kg/m
8c x 1.00mm ²	08051 0100 08	PG11 / M20/16	16 Amps	8mm	0.120 kg/m
12c x 1.00mm ²	08051 0100 12	PG11 / M20S	16 Amps	9.9mm	0.174 kg/m
16c x 1.00mm ²	08051 0100 16	PG13.5 / M20S	16 Amps	11.1mm	0.226 kg/m
25c x 1.00mm ²	08051 0100 25	PG21 / M20	16 Amps	14.3mm	0.346 kg/m
3c x 1.50mm ²	08051 0150 03	PG9 / M20/16	20 Amps	6.7mm	0.078 kg/m
4c x 1.50mm ²	08051 0150 04	PG9 / M20/16	20 Amps	7.4mm	0.092 kg/m
5c x 1.50mm ²	08051 0150 05	PG11 / M20/16	20 Amps	7.9mm	0.109 kg/m
7c x 1.50mm ²	08051 0150 07	PG11 / M20S	20 Amps	9mm	0.147 kg/m
8c x 1.50mm ²	08051 0150 08	PG13.5 / M20S	20 Amps	9.5mm	0.169 kg/m
12c x 1.50mm ²	08051 0150 12	PG16 / M20	20 Amps	11.6mm	0.237 kg/m
16c x 1.50mm ²	08051 0150 16	PG16 / M20	20 Amps	12.9mm	0.310 kg/m
25c x 1.50mm ²	08051 0150 25	PG21 / M25	20 Amps	16.9mm	0.490 kg/m
3c x 2.50mm ²	08051 0250 03	PG9 / M20/16	25 Amps	7.7mm	0.119 kg/m
4c x 2.50mm ²	08051 0250 04	PG11 / M20S	25 Amps	8.5mm	0.148 kg/m
5c x 2.50mm ²	08051 0250 05	PG11 / M20S	25 Amps	9.7mm	0.180 kg/m
7c x 2.50mm ²	08051 0250 07	PG13.5 / M20S	25 Amps	10.1mm	0.232 kg/m
8c x 2.50mm ²	08051 0250 08	PG13.5 / M20	25 Amps	11.3mm	0.274 kg/m
12c x 2.50mm ²	08051 0250 12	PG16 / M25	25 Amps	13.9mm	0.377 kg/m
4c x 4mm ²	08051 0400 04	PG13.5 / M20S	36 Amps	10.2mm	0.219 kg/m
4c x 6mm ²	08051 0600 04	PG16 / M20	45 Amps	12.3mm	0.323 kg/m
4c x 10mm ²	08051 1000 04	PG21 / M25	64 Amps	15mm	0.513 kg/m
4c x 16mm ²	08051 1600 04	PG29 / M32	87 Amps	19.2mm	0.844 kg/m
4c x 25mm ²	08051 2500 04	PG29 / M32	115 Amps	23mm	1.252 kg/m
4c x 35mm ²	08051 1600 04	PG36 / M40	140 Amps	26.7mm	1.658 kg/m
4c x 50mm ²	08051 2500 04	PG36 / M40	180 Amps	31.5mm	2.360 kg/m