

Applications

SIMBAL 'Extensiflex' Robotflex extensible cables are suitable for use in a large range of very arduous duty applications such as robots, electric doors, heavy duty machines, lifting ramps & drilling machines. They are generally used where a combination of high quality and long service life are required. They also have excellent qualities at low temperatures & can be used in both indoor and outdoor applications.

Design

1. **Conductor** :- Flexible plain copper, Class 6 to DIN VDE 0295
2. **Insulation** :- Semocore
3. **Outer Sheath** :- Polyurathene 11YM1
4. **Colour** :- Grey RAL 7001

Core Identification

Up to 0.34mm² - according to DIN 47 100
 0.50mm² & above - White cores with Black numbers
 Above 3 cores - with green / yellow earth core



Standards

Similar to VDE 0250

Cable Specification

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Cable diameter Approx	Coil diameter Approx
2c x 0.50mm ²	08077 0050 02	PG7 / M20-16	6 Amps	4.5mm	19 - 25mm
3c x 0.50mm ²	08077 0050 03	PG7 / M20-16	6 Amps	4.7mm	20 - 25mm
4c x 0.50mm ²	08077 0050 04	PG7 / M20-16	6 Amps	5.3mm	22 - 27mm
5c x 0.50mm ²	08077 0050 05	PG7 / M20-16	6 Amps	5.9mm	26 - 31mm
7c x 0.50mm ²	08077 0050 07	PG9 / M20-16	6 Amps	6.9mm	28 - 33mm
12c x 0.50mm ²	08077 0050 12	PG11 / M20S	6 Amps	8.5mm	31 - 36mm
25c x 0.50mm ²	08077 0050 25	PG16 / M20	6 Amps	11.5mm	39 - 44mm
2c x 0.75mm ²	08077 0075 02	PG7 / M20-16	13 Amps	5.3mm	19 - 24mm
3c x 0.75mm ²	08077 0075 03	PG7 / M20-16	13 Amps	5.5mm	19 - 24mm
4c x 0.75mm ²	08077 0075 04	PG7 / M20-16	13 Amps	6mm	22 - 27mm
5c x 0.75mm ²	08077 0075 05	PG9 / M20-16	13 Amps	6.5mm	23 - 28mm
7c x 0.75mm ²	08077 0075 07	PG9 / M20-16	13 Amps	7.6mm	27 - 32mm
12c x 0.75mm ²	08077 0075 12	PG11 / M20S	13 Amps	9.3mm	33 - 38mm
18c x 0.75mm ²	08077 0075 18	PG13.5 / M20S	13 Amps	10.8mm	36 - 41mm
25c x 0.75mm ²	08077 0075 25	PG16 / M20	13 Amps	12.7mm	42 - 47mm
2c x 1.00mm ²	08077 0100 02	PG7 / M20-16	16 Amps	5.7mm	20 - 25mm
3c x 1.00mm ²	08077 0100 03	PG7 / M20-16	16 Amps	6mm	22 - 27mm
4c x 1.00mm ²	08077 0100 04	PG9 / M20-16	16 Amps	6.4mm	23 - 28mm
5c x 1.00mm ²	08077 0100 05	PG9 / M20-16	16 Amps	7mm	24 - 29mm
7c x 1.00mm ²	08077 0100 07	PG11 / M20S	16 Amps	8.3mm	29 - 34mm
12c x 1.00mm ²	08077 0100 12	PG13.5 / M20S	16 Amps	10.2mm	37 - 42mm
18c x 1.00mm ²	08077 0100 18	PG13.5 / M20	16 Amps	11.8mm	42 - 47mm
25c x 1.00mm ²	08077 0100 25	PG16 / M25	16 Amps	14mm	52 - 57mm
2c x 1.50mm ²	08077 0150 02	PG7 / M20-16	20 Amps	6.1mm	22 - 27mm
3c x 1.50mm ²	08077 0150 03	PG7 / M20-16	20 Amps	6.4mm	23 - 28mm
4c x 1.50mm ²	08077 0150 04	PG9 / M20-16	20 Amps	7mm	26 - 31mm
5c x 1.50mm ²	08077 0150 05	PG9 / M20-16	20 Amps	7.9mm	27 - 32mm
7c x 1.50mm ²	08077 0150 07	PG11 / M20S	20 Amps	9.4mm	37 - 42mm
12c x 1.50mm ²	08077 0150 12	PG13.5 / M20	20 Amps	11mm	46 - 51mm
18c x 1.50mm ²	08077 0150 18	PG16 / M20	20 Amps	12.8mm	42 - 47mm
25c x 1.50mm ²	08077 0150 25	PG21 / M25	20 Amps	15.2mm	59 - 64mm
3c x 2.50mm ²	08077 0250 03	PG11 / M20S	30 Amps	8.3mm	29 - 34mm
4c x 2.50mm ²	08077 0250 04	PG11 / M20S	30 Amps	9.1mm	30 - 35mm
5c x 2.50mm ²	08077 0250 05	PG13.5 / M20	30 Amps	9.9mm	34 - 39mm
7c x 2.50mm ²	08077 0250 07	PG13.5 / M20	30 Amps	11.7mm	42 - 47mm
12c x 2.50mm ²	08077 0250 012	PG16 / M25	30 Amps	13.9mm	52 - 57mm

Mechanical Properties	
Closed Spiral Length	3000mm Maximum
Extended Length	4 x Closed Length
Straight Ends (Tails)	200mm / 200mm std. (special lengths available on request)
Chemical Properties	
Oil resistant acc. To VDE 0472 part 803 test type B	
Acid resistant & Halogen Free	
Suitable for Indoor & Outdoor applications	
Electrical & Thermal Properties	
Nominal Voltage	0.14 - 0.34mm ² 50V 0.50mm ² & above 300/500V
Test Voltage	up to 1.50mm ² 2000V 2.50mm ² 2500V
Max surface temperature	- 40 deg C / + 90 deg C