

**Applications**

SIMBAL 'Extensiflex Robotflex' extensible cables are suitable for very arduous applications such as robots, electric doors, heavy duty machines, lifting ramps and drilling machines. They are used where high quality and long service life are required, they also have excellent reset properties at low temperatures and 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 0.34mm<sup>2</sup> - according to DIN 47 100  
 From 0.50mm<sup>2</sup> - white cores with black numbers  
 From 3 cores - with green / yellow earth core



**Standards**

Similar to VDE 0250

<b>Mechanical Properties</b>		
Closed Spiral length		3000mm Maximum
Extended length		4 x closed cable length
Straight Ends		200mm / 200mm as standard - specials available on request
<b>Chemical Properties</b>		
Oil resistant acc to VDE 0472 part 803 test type B		
Halogen Free		
Acid Resistant		
<b>Electrical &amp; Thermal Properties</b>		
Nominal Voltage	0.14 - 0.34mm <sup>2</sup>	350 V
	From 0.50mm <sup>2</sup>	300 / 500 V
Test Voltage	up to 1.50mm <sup>2</sup>	2000 V
	2.50 - 4.00mm <sup>2</sup>	2500 V
	From 6.00mm <sup>2</sup>	3000 V
Current Rating		See facing page
Max surface temperature		- 40 deg C up to + 90 deg C

Number of cores & nominal cross section	Gland PG/ISO	Current rating at 30 deg C	Cable diameter Approx	Coil Diameter Approx
3c x 0.34mm <sup>2</sup>	PG7 / M20-16	4 Amps	4.2mm	17 - 22mm
18c x 0.34mm <sup>2</sup>	PG11 / M20S	4 Amps	8.6mm	26 - 31mm
2c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	4.5mm	19 - 25mm
3c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	4.7 mm	20 - 25mm
4c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	5.3mm	22 - 27mm
5c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	5.9mm	26 - 31mm
7c x 0.50mm <sup>2</sup>	PG9 / M20-16	6 Amps	6.9mm	28 - 33mm
12c x 0.50mm <sup>2</sup>	PG11 / M20S	6 Amps	8.5mm	31 - 36mm
25c x 0.50mm <sup>2</sup>	PG16 / M20	6 Amps	11.5mm	39 - 44mm
2c x 0.75mm <sup>2</sup>	PG7 / M20-16	13 Amps	5.3mm	19 - 24mm
3c x 0.75mm <sup>2</sup>	PG7 / M20-16	13 Amps	5.5mm	19 - 24mm
4c x 0.75mm <sup>2</sup>	PG7 / M20-16	13 Amps	6.0mm	22 - 27mm
5c x 0.75mm <sup>2</sup>	PG9 / M20-16	13 Amps	6.5mm	23 - 28mm
7c x 0.75mm <sup>2</sup>	PG9 / M20-16	13 Amps	7.6mm	27 - 32mm
12c x 0.75mm <sup>2</sup>	PG11 / M20S	13 Amps	9.3mm	33 - 38mm
14c x 0.75mm <sup>2</sup>	PG11 / M20S	13 Amps	9.8mm	34 - 39mm
18c x 0.75mm <sup>2</sup>	PG13.5 / M20S	13 Amps	10.8mm	36 - 41mm
25c x 0.75mm <sup>2</sup>	PG16 / M20	13 Amps	12.7mm	42 - 47mm
2c x 1.00mm <sup>2</sup>	PG7 / M20-16	16 Amps	5.7mm	20 - 25mm
3c x 1.00mm <sup>2</sup>	PG7 / M20-16	16 Amps	6.0mm	22 - 27mm
4c x 1.00mm <sup>2</sup>	PG9 / M20-16	16 Amps	6.4mm	23 - 28mm
5c x 1.00mm <sup>2</sup>	PG9 / M20-16	16 Amps	7.0mm	24 - 29mm
7c x 1.00mm <sup>2</sup>	PG11 / M20S	16 Amps	8.3mm	29 - 34mm
8c x 1.00mm <sup>2</sup>	PG11 / M20S	16 Amps	9.3mm	33 - 38mm
12c x 1.00mm <sup>2</sup>	PG13.5 / M20S	16 Amps	10.2mm	37 - 42mm
18c x 1.00mm <sup>2</sup>	PG13.5 / M20	16 Amps	11.8mm	42 - 47mm
25c x 1.00mm <sup>2</sup>	PG16 / M25	16 Amps	14.0mm	52 - 57mm
2c x 1.50mm <sup>2</sup>	PG7 / M20-16	20 Amps	6.1mm	22 - 27mm
3c x 1.50mm <sup>2</sup>	PG7 / M20-16	20 Amps	6.4mm	23 - 28mm
4c x 1.50mm <sup>2</sup>	PG9 / M20-16	20 Amps	7.0mm	26 - 31mm
5c x 1.50mm <sup>2</sup>	PG9 / M20-16	20 Amps	7.6mm	27 - 32mm
7c x 1.50mm <sup>2</sup>	PG11 / M20S	20 Amps	9.4mm	37 - 42mm
12c x 1.50mm <sup>2</sup>	PG13.5 / M20	20 Amps	11.0mm	40 - 5mm
18c x 1.50mm <sup>2</sup>	PG16 / M20	20 Amps	12.8mm	46 - 51mm
25c x 1.50mm <sup>2</sup>	PG21 / M25	20 Amps	15.2mm	59 - 64mm
3c x 2.50mm <sup>2</sup>	PG11 / M20S	30 Amps	8.3mm	29 - 34mm
4c x 2.50mm <sup>2</sup>	PG11 / M20S	30 Amps	9.1mm	30 - 35mm
5c x 2.50mm <sup>2</sup>	PG13.5 / M20	30 Amps	9.9mm	34 - 39mm
7c x 2.50mm <sup>2</sup>	PG13.5 / M20	30 Amps	11.7mm	42 - 47mm
12c x 2.50mm <sup>2</sup>	PG16 / M25	30 Amps	13.9mm	52 - 57mm