

### Applications

SIMBAL ‘Extensiflex ’E’ Screened extensible cables are suitable for many electronic applications (e.g. medical equipment, measuring equipment, motor industry, etc.) The Polyurathene outer sheath and Semocore core insulation ensures a high reset ability and long service life. The high quality helical copper screen also means that the reset ability of the cable is not impaired.

### Design

1. **Conductor :-** Flexible plain copper, to DIN VDE 0295  
0.14mm<sup>2</sup> (18x0.10mm) / 0.25mm<sup>2</sup> (14x0.15mm) / 0.50mm<sup>2</sup> (28x0.15mm)
2. **Insulation :-** Semocore
3. **Outer Sheath :-** Polyurathene 11YM1
4. **Screening :-** Plain copper screen covering approx 90%
5. **Colour :-** Black (other colours available on request)

### 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



<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	300 V
Test Voltage	2000 V core to core 1000 V core to screen
Current Rating	See facing page
Max surface temperature	- 30 deg C up to + 80 deg C

Number of cores & nominal cross section	Gland PG/ISO	Current rating at 30 deg C	Cable diameter Approx	Coil Diameter Approx
2c x 0.14mm <sup>2</sup>	PG7 / M20-16		4.1mm	16 - 21mm
3c x 0.14mm <sup>2</sup>	PG7 / M20-16		4.3mm	17 - 22mm
4c x 0.14mm <sup>2</sup>	PG7 / M20-16		4.5mm	17 - 22mm
5c x 0.14mm <sup>2</sup>	PG7 / M20-16		5.0 mm	18 - 23mm
6c x 0.14mm <sup>2</sup>	PG7 / M20-16		5.3mm	19 - 24mm
7c x 0.14mm <sup>2</sup>	PG7 / M20-16		5.5mm	21 - 26mm
8c x 0.14mm <sup>2</sup>	PG7 / M20-16		6.0mm	22 - 27mm
10c x 0.14mm <sup>2</sup>	PG7 / M20-16		6.2mm	23 - 28mm
12c x 0.14mm <sup>2</sup>	PG7 / M20-16		6.4mm	23 - 28mm
18c x 0.14mm <sup>2</sup>	PG9 / M20-16		7.4mm	27 - 32mm
25c x 0.14mm <sup>2</sup>	PG11 / M20S		9.0mm	32 - 37mm
2c x 0.25mm <sup>2</sup>	PG7 / M20-16		4.5mm	17 - 22mm
3c x 0.25mm <sup>2</sup>	PG7 / M20-16		4.7mm	18 - 23mm
4c x 0.25mm <sup>2</sup>	PG7 / M20-16		5.0mm	18 - 23mm
5c x 0.25mm <sup>2</sup>	PG7 / M20-16		5.9 mm	20 - 25mm
6c x 0.25mm <sup>2</sup>	PG7 / M20-16		6.2mm	21 - 26mm
8c x 0.25mm <sup>2</sup>	PG9 / M20-16		6.6mm	23 - 28mm
12c x 0.25mm <sup>2</sup>	PG9 / M20-16		7.4mm	27 - 32mm
18c x 0.25mm <sup>2</sup>	PG11 / M20S		9.2mm	33 - 38mm
25c x 0.25mm <sup>2</sup>	PG13.5 / M20		10.2mm	37 - 42mm
2c x 0.34mm <sup>2</sup>	PG7 / M20-16	4 Amps	4.8mm	18 - 23mm
3c x 0.34mm <sup>2</sup>	PG7 / M20-16	4 Amps	5.0mm	18 - 23mm
4c x 0.34mm <sup>2</sup>	PG7 / M20-16	4 Amps	5.3 mm	19 - 24mm
5c x 0.34mm <sup>2</sup>	PG7 / M20-16	4 Amps	5.9mm	20 - 25mm
6c x 0.34mm <sup>2</sup>	PG9 / M20-16	4 Amps	6.4mm	23 - 28mm
7c x 0.34mm <sup>2</sup>	PG9 / M20-16	4 Amps	6.8mm	24 - 29mm
8c x 0.34mm <sup>2</sup>	PG9 / M20-16	4 Amps	7.2mm	27 - 32mm
12c x 0.34mm <sup>2</sup>	PG11 / M20-16	4 Amps	8.0mm	28 - 33mm
18c x 0.34mm <sup>2</sup>	PG11 / M20S	4 Amps	9.1mm	33 - 38mm
25c x 0.34mm <sup>2</sup>	PG13.5 / M20S	4 Amps	11.0mm	40 - 45mm
2c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	5.4mm	19 - 24mm
3c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	5.7mm	21 - 26mm
4c x 0.50mm <sup>2</sup>	PG7 / M20-16	6 Amps	6.0 mm	22 - 27mm
6c x 0.50mm <sup>2</sup>	PG9 / M20-16	6 Amps	7.0mm	26 - 31mm
8c x 0.50mm <sup>2</sup>	PG11 / M20S	6 Amps	8.6mm	29 - 34mm
12c x 0.50mm <sup>2</sup>	PG11 / M20S	6 Amps	9.2mm	33 - 38mm
18c x 0.50mm <sup>2</sup>	PG13.5 / M20S	6 Amps	10.8mm	38 - 43mm
25c x 0.50mm <sup>2</sup>	PG16 / M20	6 Amps	12.7mm	44 - 49mm

**Other cable sections are available on request**