

### Applications

SIMBAL 'FLATFLEX 'N-CY' Screened Neoprene flat cables are typically used on festoon systems on cranes & handling equipment, in applications with high mechanical stress & frequent bending in one plane.

### Design

1. **Conductor** :- acc. To DIN VDE 0295 Class 6 resp. IEC 60228
2. **Insulation** :- Rubber Compound
3. **Shield** : **M(Std)HOU** -Coated Foil + wrapped tinned wire  
**MCHOU** - Copper braid tinned—coverage ca. 85%
4. **Outer Sheath** :- PCP (Neoprene)
5. **Colour** :- Black

### Marking

M(Std)HOU (EMV), Number of cores - Cross section, 300/500 V, Year of manufacture

### Core Identification

In accordance with VDE 0293-308  
 4 cores :- Black, Grey, Green/Yellow, Brown  
 5 cores :- Black, Grey, Green/Yellow, Brown, Blue  
 > 5 cores :- Black with white printed numbers (with or without green/yellow earth).

### Standards

DIN VDE 0250  
 Conforms to 2006/95/EC—CE Guidelines



Mechanical Properties	
Tensile strength of the conductor	Static 15 N/mm <sup>2</sup> Dynamic 30 N/mm <sup>2</sup>
Bending Radii	Static Installation 10 x t Fixed Installation 10 x t

Chemical Properties	
Oil, Acid & Alkaline resistant For Indoor & Outdoor applications, Moisture, UV & Ozone resistant Flame retardant in accordance with IEC 60332 part 1	

Electrical & Thermal Properties	
Rated Voltage	300 / 500 V
Test Voltage	2.0 Kv
Max surface temperature	- fixed installation - 40 deg C up to + 85 deg C - mobile installation - 35 deg C up to + 85 deg C
Maximum temperature at the conductor	- in operation + 90 deg C - in short circuit + 150 deg C

### Technical data

Number of cores & nominal cross section	Part No.	Gland PG (Metric)	Current rating at 30 deg C	Outer dimensions Approx	Weight Approx
<b>M(Std)HOU</b>					
4 G 1.5mm <sup>2</sup>	08014 0150 04CY	2930 (M32/29)	23 Amps	22.5 x 8mm	0.291 kg/m
8 G 1.5mm <sup>2</sup>	08014 0150 08CY	3640 (M50/42)	16 Amps	41 x 8mm	0.537 kg/m
12 G 1.5mm <sup>2</sup>	08014 0150 12CY	8108 Plate Gland	12 Amps	60 x 8mm	0.795 kg/m
4 G 2.5mm <sup>2</sup>	08014 0250 04CY	2930 (M32/29)	32 Amps	24 x 8.5mm	0.437 kg/m
6 G 2.5mm <sup>2</sup>	08014 0250 06CY	3640 (M40/36)	27 Amps	34 x 8.5mm	0.562 kg/m
12 G 2.5mm <sup>2</sup>	08014 0250 12CY	8108 Plate Gland	17 Amps	65 x 8.5mm	1.004 kg/m
4 G 6mm <sup>2</sup>	08014 0600 04CY	3640 (M40/36)	56 Amps	29 x 10mm	0.603 kg/m
4 x ( 2 x 1 ) mm <sup>2</sup>	08014 0100 04x2CY	8107 Plate Gland	14 Amps	34 x 13.5mm	0.525 kg/m
7 x ( 2 x 1 ) mm <sup>2</sup>	08014 0100 07x2CY	8108 Plate Gland	14 Amps	60 x 13.5mm	0.909 kg/m
<b>MCHOU</b>					
4 G 4mm <sup>2</sup>	08014 0400 04CY	3640 (M32/29)	43 Amps	26.5 x 9mm	0.493 kg/m
4 G 10mm <sup>2</sup>	08014 1000 04CY	4245 (M50/42)	78 Amps	35.5 x 12mm	0.946 kg/m
4 G 16mm <sup>2</sup>	08014 1600 04CY	4245 (M50/42)	104 Amps	41 x 13.5mm	1.320 kg/m
4 G 25mm <sup>2</sup>	08014 2500 04CY	8107 Plate Gland	138 Amps	51 x 16mm	2.000 kg/m
4 G 35mm <sup>2</sup>	08014 3500 04CY	8108 Plate Gland	171 Amps	60 x 18mm	2.700 kg/m
4 G 50mm <sup>2</sup>	08014 5000 04CY	8108 Plate Gland	213 Amps	67 x 21mm	3.500 kg/m
4 G 70mm <sup>2</sup>	08014 7000 04CY	8108 Plate Gland	263 Amps	76 x 22.5mm	4.650 kg/m
4 G 95mm <sup>2</sup>	08014 9500 04CY	8110 Plate Gland	317 Amps	84.5x 25mm	5.880 kg/m
4 G 120mm <sup>2</sup>	08014 1200 04CY	8110 Plate Gland	370 Amps	92 x 27mm	7.280 kg/m