

**Applications**

SIMBAL ‘TRAILFLEX H07RN-F’ cables are suitable for use in installations with moving equipment, electrical appliances and for construction sites. The cable may be rated 0.6 / 1 Kv where the installation has built in protection and for motors in lifting appliances, machine tools etc.

**Design**

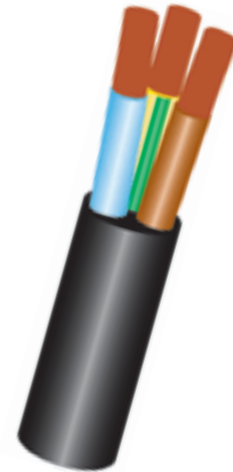
1. **Conductor :-** Flexible plain copper, Class 5 to DIN VDE 0295
2. **Insulation :-** EPR
3. **Outer Sheath :-** PCP (Neoprene) colour Black

**Marking**

H07RN-F No. of cores x cross section

**Core Identification**

4 core - colour coded Black, Grey, Green/Yellow, Brown  
 5 core - colour coded Black, Grey, Green/Yellow, Brown, Blue  
 Multi core - Black cores with white numbers + green/yellow earth



**Standards**

HD22.4; HD516; IEC60245-6 type 66; NF C 32- 102-4

<b>Mechanical Properties</b>		
Bending Radii (Dynamic)		8 x cable diameter
(Static)		4 x cable diameter
<b>Chemical Properties</b>		
Lead & Silicon Free & Oil resistant		
For Indoor & Outdoor applications		
Self Extinguishing & Flame retardant to IEC 332-1		
<b>Electrical &amp; Thermal Properties</b>		
Nominal Voltage	U <sub>o</sub> / U	450 / 750V
Test Voltage		2500 V
Current Rating		See facing page
Max surface temperature		
- fixed installation		- 40 deg C up to + 60 deg C
- mobile installation		- 30 deg C up to + 60 deg C
Max conductor temperature		+ 60 deg C ( + 85 deg C if protected) + 200 deg C in short circuit

Number of cores & nominal cross section	Gland PG / ISO	Current rating at 30 deg C	Max. Outer diameter Approx	Weight Approx
1c x 1.50mm <sup>2</sup>	PG 7.0 / M20-16S	24 Amps	6.0mm	0.050kg/m
1c x 2.50mm <sup>2</sup>	PG 7.0 / M20-16S	33 Amps	6.5mm	0.065kg/m
1c x 4.00mm <sup>2</sup>	PG 9.0 / M20-16S	45 Amps	7.8mm	0.090kg/m
1c x 6.00mm <sup>2</sup>	PG 11.0 / M20S	58 Amps	9.0mm	0.115kg/m
1c x 10.0mm <sup>2</sup>	PG 13.5 / M20S	80 Amps	10.8mm	0.190kg/m
1c x 16.0mm <sup>2</sup>	PG 13.5 / M20	107 Amps	12.0mm	0.260kg/m
1c x 25.0mm <sup>2</sup>	PG 16.0 / M20	142 Amps	14.1mm	0.370kg/m
1c x 35.0mm <sup>2</sup>	PG 21.0 / M25	175 Amps	15.9mm	0.495kg/m
1c x 50.0mm <sup>2</sup>	PG 21.0 / M25	212 Amps	18.5mm	0.680kg/m
1c x 70.0mm <sup>2</sup>	PG 29.0 / M32	270 Amps	21.0mm	0.930kg/m
1c x 95.0mm <sup>2</sup>	PG 29.0 / M32	327 Amps	24.0mm	1.250kg/m
1c x 120mm <sup>2</sup>	PG 29.0 / M32	379 Amps	25.8mm	1.550kg/m
1c x 150mm <sup>2</sup>	PG 36.0 / M40	435 Amps	28.5mm	1.900kg/m
1c x 185mm <sup>2</sup>	PG 36.0 / M40	496 Amps	31.5mm	2.300kg/m
1c x 240mm <sup>2</sup>	PG 42.0 / M50S	584 Amps	35.0mm	2.900kg/m
2c x 1.00mm <sup>2</sup>	PG 9.0 / M20S	19 Amps	8.5mm	0.090kg/m
2c x 1.50mm <sup>2</sup>	PG 11.0 / M20S	24 Amps	9.5mm	0.115kg/m
2c x 2.50mm <sup>2</sup>	PG 13.5 / M20S	33 Amps	11.0mm	0.170kg/m
2c x 4.00mm <sup>2</sup>	PG 16.0 / M20	45 Amps	13.0mm	0.230kg/m
2c x 6.00mm <sup>2</sup>	PG 21.0 / M25	58 Amps	15.6mm	0.300kg/m
2c x 10.0mm <sup>2</sup>	PG 29.0 / M32	80 Amps	20.6mm	0.570kg/m
3c x 1.00mm <sup>2</sup>	PG 11.0 / M20S	19 Amps	9.3mm	0.105kg/m
3c x 1.50mm <sup>2</sup>	PG 11.0 / M20S	24 Amps	10.3mm	0.135kg/m
3c x 2.50mm <sup>2</sup>	PG 13.5 / M20	33 Amps	12.0mm	0.200kg/m
3c x 4.00mm <sup>2</sup>	PG 16.0 / M25	45 Amps	14.0mm	0.280kg/m
3c x 6.00mm <sup>2</sup>	PG 21.0 / M25	58 Amps	16.6mm	0.365kg/m
3c x 10.0mm <sup>2</sup>	PG 29.0 / M32	80 Amps	22.1mm	0.700kg/m
3c x 16.0mm <sup>2</sup>	PG 29.0 / M32	107 Amps	24.8mm	0.950kg/m
3c x 25.0mm <sup>2</sup>	PG 36.0 / M40	142 Amps	29.3mm	1.380kg/m
3c x 35.0mm <sup>2</sup>	PG 36.0 / M40	175 Amps	33.0mm	1.810kg/m
3c x 50.0mm <sup>2</sup>	PG 42.0 / M50	212 Amps	38.5mm	2.480kg/m
3c x 70.0mm <sup>2</sup>	PG 48.0 / M50	270 Amps	43.5mm	3.310kg/m
3c x 95.0mm <sup>2</sup>	PG 48.0 / M63S	327 Amps	50.0mm	4.400kg/m
4c x 1.00mm <sup>2</sup>	PG 11.0 / M20S	18 Amps	10.3mm	0.140kg/m
4c x 1.50mm <sup>2</sup>	PG 13.5 / M20	22 Amps	11.5 mm	0.170 kg/m
4c x 2.50mm <sup>2</sup>	PG 16.0 / M20	30 Amps	13.2mm	0.245kg/m
4c x 4.00mm <sup>2</sup>	PG 21.0 / M25	40 Amps	15.5mm	0.350kg/m
4c x 6.00mm <sup>2</sup>	PG 21.0 / M25	52 Amps	18.5mm	0.470kg/m
4c x 10.0mm <sup>2</sup>	PG 29.0 / M32	71 Amps	24.1mm	0.87kg/m
4c x 16.0mm <sup>2</sup>	PG 36.0 / M40	96 Amps	27.1mm	1.180kg/m
4c x 25.0mm <sup>2</sup>	PG 36.0 / M50S	127 Amps	32.5mm	1.750kg/m
4c x 35.0mm <sup>2</sup>	PG 42.0 / M50S	157 Amps	36.5mm	2.300kg/m
4c x 50.0mm <sup>2</sup>	PG 48.0 / M50	190 Amps	42.5mm	3.160kg/m
4c x 70.0mm <sup>2</sup>	PG 48.0 / M63S	242 Amps	48.6mm	4.240kg/m
4c x 95.0mm <sup>2</sup>	- / M63	293 Amps	56.0mm	5.660kg/m

**Cable Specification (continued)**

Number of cores & nominal cross section	Gland PG / ISO	Current rating at 30 deg C	Max. Outer diameter Approx	Weight Approx
5c x 1.00mm <sup>2</sup>	PG 13.5 / M20	18Amps	12.0mm	0.190kg/m
5c x 1.50mm <sup>2</sup>	PG 16.0 / M20	22Amps	12.5mm	0.225kg/m
5c x 2.50mm <sup>2</sup>	PG 21.0 / M25	30Amps	14.5mm	0.300kg/m
5c x 4.00mm <sup>2</sup>	PG 21.0 / M25	40Amps	17.0mm	0.450kg/m
5c x 6.00mm <sup>2</sup>	PG 29.0 / M25	52Amps	20.5mm	0.580kg/m
3c x 10.0mm <sup>2</sup>	PG 36.0 / M40	71Amps	26.5mm	1.007kg/m
5c x 16.0mm <sup>2</sup>	PG 36.0 / M40	96Amps	30.1mm	1.470kg/m
5c x 25.0mm <sup>2</sup>	PG 42.0 / M50S	127Amps	36.1mm	2.170kg/m
7c x 1.50mm <sup>2</sup>	PG 21.0 / M25	14Amps	16.5mm	0.340kg/m
7c x 2.50mm <sup>2</sup>	PG 29.0 / M25	20Amps	18.5mm	0.470kg/m
12c x 1.50mm <sup>2</sup>	PG 29.0 / M25	11Amps	19.5mm	0.460kg/m
12c x 2.50mm <sup>2</sup>	PG 29.0 / M32	15amps	22.5mm	0.680kg/m
19c x 1.50mm <sup>2</sup>	PG 36.0 / M32	9Amps	23.5mm	0.740kg/m
19c x 2.50mm <sup>2</sup>	PG 36.0 / M40	13Amps	27.5mm	1.070kg/m
24c x 1.50mm <sup>2</sup>	PG 36.0 / M40	8Amps	26.5mm	0.940kg/m
24c x 2.50mm <sup>2</sup>	PG 36.0 / M40	11Amps	31.0mm	1.350kg/m
27c x 1.50mm <sup>2</sup>	PG 36.0 / M40	8Amps	29.0mm	1.160kg/m
27c x 2.50mm <sup>2</sup>	PG 42.0 / M50S	11Amps	34.0mm	1.250kg/m
37c x 1.50mm <sup>2</sup>	PG 36.0 / M40	7Amps	31.5mm	1.300kg/m

Other cable sections available on request